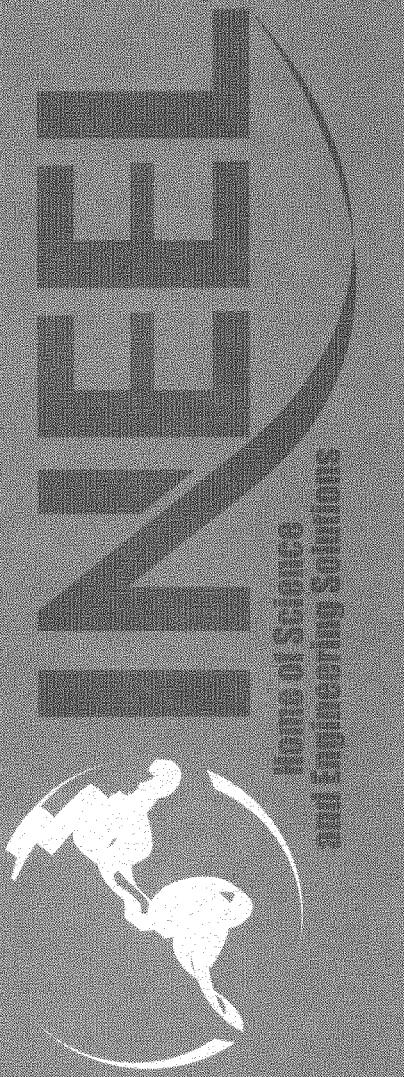


***A Comprehensive Inventory of
Radiological and
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in Waste Buried or Projected to
be Buried in the Subsurface
Disposal Area of the INEEL
RWMC during the Years of
1984 to 2003 Supplemental
(Volume 2 of 2)***

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August 2001

*Idaho National Engineering and Environmental Laboratory
Bechtel BWXT Idaho, LLC*



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**Idaho National Engineering and Environmental Laboratory
Environmental Restoration Program
Idaho Falls, Idaho 83415**

Prepared for the
U.S. Department of Energy
Assistant Secretary for Environmental Management
Under DOE Idaho Operations Office
Contract DE-AC07-99ID13727

PREFACE

This report is a supplement to the 1995 document *A Comprehensive Inventory of Radiological and Nonradiological Contaminants in Waste Buried or Projected to Be Buried in the Subsurface Disposal Area of the INEL RWMC during the Years 1984–2003*. Volume 1 contains the main body of the report, plus Appendix A. Volume 2 contains Appendix B, inventory data sheets, and Appendix C, the scaling factors documentation for the Naval Reactors Facility.

Appendix B
Inventory Data Sheets

ANL

PART A - GENERAL INFORMATION

- (1) Preparer: JKM (2) Date Prepared: 01/31/01
(3,4,5,6) Waste Stream: ANL-704-1 Contact-handled, nonprocessable LIW generated during the manufacturing of metallic fuels and facility operations in FMF.
- (7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic: L
(8) Actual years disposed of at SDA: Starting year: 1994 Ending year: 1998 Annual or Total over all years: T
- (9) Waste stream volume: 1.78000 Units*: M Container or Waste volume: C
- (10) Comments:

PART B - WASTE STREAM CHARACTERISTICS

- (1) General physical form: 10 21
(2) Details on physical form:

(3) Chemical form:
(4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown | PL
(5) Waste container type: RDL
(6) Other characteristics of interest:
(7) Comments:

PART C - NONRADIOLOGICAL CONTAMINANTS - Additional information or explanations:

PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES

Type of source information:

X RWMIS	Generator forecasts
Sample analysis data	Other database
	Expert judgment
Other:	IWTS

Details concerning source:

Do the estimates of contaminant quantities represent: Best estimate | Worst case | Other: B

If other than best estimate, why?:

Do the data conflict with RWMIS?: Y Where appropriate as explained in document text, scaling factors were applied for a better curie estimate.

Major unknowns in inventories of contaminants:

Key assumptions used to deal with the unknowns:

CONTINUATION

Continuation of Part: Column or Question Number or title:

Footnotes:

* Units: cubic feet (FT) | gallons (GL) | grams (GM) | pounds (LB) | cubic meters (M) | unknown (U)

Waste Stream: ANL-704-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used?	Samples? Y/N*	Num. of Samples	Std. Dev.	Minimum Value	Maximum Value
U-235	T	1.534E-03	Ci	1994	1994	N	N				7.5754E-03
U-238	T	5.156E-04	Ci	1994	1994	N	N				2.5456E-03
U-235	T	7.590E-04	Ci	1998	1998	N	N				3.7475E-03
U-238	T	2.868E-04	Ci	1998	1998	N	N				1.4160E-03

Footnotes:

- * and standard deviation in the next column. If not, mark N and give minimum value and maximum values in the next column
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

PART A - GENERAL INFORMATION

- (1) Preparer: JKJ (2) Date Prepared: 01/31/01
 (3, 4, 5, 6) Waste Stream: ANL-752-1 Contact-handled, nonprocessible LLW generated during L&O facility operations, maintenance, modifications, and monitoring.
- (7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic: L
 (8) Actual years disposed of at SDA: Starting year: 1994 Ending year: 1999 Annual or Total over all years: T
 Container or Waste volume: C
- (9) Waste stream volume: 202.00000 Units*: M
- (10) Comments: 8. Actual years disposed at SDA 1994, 1997, 1998, 1999.

PART B - WASTE STREAM CHARACTERISTICS

- (1) General physical form: 21 44, 42, 43, 41, 47, 10, 11, and 13.
 (2) Details on physical form: Waste is in solid form, absorbed liquid, and sludge.
- (3) Chemical form:
 (4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown: PL
 (5) Waste container type: PB2
 (6) Other characteristics of interest:
 (7) Comments: 3. Approximately 0.62% of total waste stream container volume is absorbed liquid in silica-cement. Approximately 0.33% of total waste stream container volume is sludge.

5. Waste container types also: CW, DM, BXW.

PART C - NONRADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES

Type of source information:

RWMIS Generator forecasts
 Sample analysis data Other database
 Expert judgment
 Other: IWTS.
 Shipping records

Details concerning source:

Do the estimates of contaminant quantities represent: Best estimate | Worst case | Other: B

If other than best estimate, why?:

Do the data conflict with RWMIS?: Y Where appropriate, scaling factors were applied for a better best estimate.

Major unknowns in inventories of contaminants:

Key assumptions used to deal with the unknowns:

CONTINUATION

Continuation of Part: Column or Question Number or Title:

Footnotes:

- * Units: cubic feet (FT) | gallons (GL) | grams (GM) | pounds (LB) | cubic meters (M) | unknown (U)

Waste Stream: ANL-752-1

CAS Number	(A) Annual Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
1332-21-4	T	1.962E+05	Gm	1997	1997	N	N			1.9616E+05	2.9424E+05
Asbestos						Basis for Uncertainty: Physical Form: Solid	See additional information.				
1332-21-4	T	2.404E+05	Gm	1998	1998	N	N			2.4039E+05	3.6059E+05
Asbestos						Basis for Uncertainty: Physical Form: Solid	See additional information.				
1332-21-4	T	1.465E+05	Gm	1999	1999	N	N			1.4654E+05	2.1982E+05
Asbestos						Basis for Uncertainty: Physical Form: Solid	See additional information.				

Footnotes:

- * If sample data are available, mark Y in the column titled "Samples?" and provide the number of samples in the next column and standard deviation in the next column. If not, mark N and give minimum value and maximum value.
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
AC-227	T	0.000E+00	Ci	1994	1994	N	N			
AG-110M	T	2.402E-07	Ci	1994	1994	N	N			
AM-241	T	1.565E-08	Ci	1994	1994	N	N			
AM-243	T	0.000E+00	Ci	1994	1994	N	N			
BA-140	T	8.994E-07	Ci	1994	1994	N	N			
CE-144	T	1.355E-03	Ci	1994	1994	N	N			

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CM-244	T	0.000E+00	Ci	1994	1994	N	N				
CS-134	T	1.430E-04	Ci	1994	1994	N	N				
CS-137	T	2.711E-03	Ci	1994	1994	N	N				
EU-152	T	1.753E-07	Ci	1994	1994	N	N				
EU-154	T	2.902E-05	Ci	1994	1994	N	N				
EU-155	T	7.932E-05	Ci	1994	1994	N	N				

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
H-3	T	1.931E-05	Ci	1994	1994	N	N			5.9443E-03
I-129	T	7.600E-10	Ci	1994	1994	N	N			6.3600E-06
I-131	T	8.200E-10	Ci	1994	1994	N	N			
LA-140	T	0.000E+00	Ci	1994	1994	N	N			
MN-54	T	4.066E-05	Ci	1994	1994	N	N			
NP-237	T	6.585E-08	Ci	1994	1994	N	N			

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PA-231	T	3.000E-11	Ci	1994	1994	N	N				
PB-210	T	0.000E+00	Ci	1994	1994	N	N				
PU-238	T	4.195E-05	Ci	1994	1994	N	N				
PU-239	T	6.185E-05	Ci	1994	1994	N	N				
PU-240	T	2.194E-06	Ci	1994	1994	N	N				
PU-241	T	7.545E-06	Ci	1994	1994	N	N				

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
PU-242	T	0.000E+00	Ci	1994	1994	N	N			

RA-226	T	0.000E+00	Ci	1994	1994	Basis for Uncertainty: See additional information Physical Form: Unknown				
RA-228	T	0.000E+00	Ci	1994	1994	Basis for Uncertainty: See additional information Physical Form: Unknown				
RU-106	T	9.287E-04	Ci	1994	1994	Basis for Uncertainty: See additional information Physical Form: Unknown				
SB-124	T	2.210E-07	Ci	1994	1994	Basis for Uncertainty: See additional information Physical Form: Unknown				
SB-125	T	1.504E-04	Ci	1994	1994	Basis for Uncertainty: See additional information Physical Form: Unknown				

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SN-113	T	5.229E-06	Ci	1994	1994	N	N			2.5720E-05	

Waste Gen.												
Basis for Uncertainty: See additional information Physical Form: Unknown												
Waste Stream:	Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
ANL-752-1	SN-113	T	5.229E-06	Ci	1994	1994	N	N			2.5720E-05	
	SR-89	T	0.000E+00	Ci	1994	1994	N	N				
	SR-90	T	1.590E-03	Ci	1994	1994	N	N			9.4078E-03	
	TA-182	T	6.735E-03	Ci	1994	1994	N	N			3.9824E-02	
	TC-99	T	8.244E-06	Ci	1994	1994	N	N			1.9360E-05	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
TE-132	T	0.000E+00	Ci	1994	1994	Forecast used? Y/N**

Samples? Y/N*

Num. of Samples

Std Dev

Minimum Value

Maximum Value

Physical Form: Unknown

Chemical Form: Unknown

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PART D - RADIOLOGICAL CONTAMINANTS

Page: 8
08/26/02

Waste Stream:	ANL-752-1			Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual Total	Quantity	Units	Begin Year	End Year					
U-233	T	8.600E-10	Ci	1994	1994	N	N			
Y-90	T	6.735E-03	Ci	1994	1994	N	N			
ZR-95	T	3.650E-03	Ci	1994	1994	N	N			
AC-227	T	3.000E-11	Ci	1997	1997	N	N			
AG-110M	T	5.105E-06	Ci	1997	1997	N	N			
AM-241	T	3.430E-03	Ci	1997	1997	N	N			

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
<hr/>										
AM-243	T	1.000E-11	Ci	1997	1997	N	N			
<hr/>										
BA-140	T	1.911E-05	Ci	1997	1997	N	N			
<hr/>										
C-14	T	1.154E-05	Ci	1997	1997	N	N			
<hr/>										
CE-144	T	7.082E-02	Ci	1997	1997	N	N			
<hr/>										
CL-36	T	0.000E+00	Ci	1997	1997	N	N			
<hr/>										
CM-244	T	3.000E-11	Ci	1997	1997	N	N			
<hr/>										

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CO-57	T	1.142E-02	Ci	1997	1997	N	N				1.1422E-02
CO-58	T	2.082E-02	Ci	1997	1997	N	N				3.4642E-02
CO-60	T	1.648E-02	Ci	1997	1997	N	N				
CR-51	T	1.936E-03	Ci	1997	1997	N	N				
CS-134	T	3.054E-03	Ci	1997	1997	N	N				
CS-137	T	5.761E-02	Ci	1997	1997	N	N				8.8338E-02

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std. Dev	Minimum Value	Maximum Value
EU-152	T	4.339E-06	Ci	1997	1997	N	N	N	N	6.4600E-06	
EU-154	T	1.561E-03	Ci	1997	1997	N	N	N	N	6.0194E-02	
EU-155	T	1.557E-02	Ci	1997	1997	N	N	N	N	6.1985E-02	
FE-59	T	1.204E-03	Ci	1997	1997	N	N	N	N	1.4954E-03	
H-3	T	5.403E-04	Ci	1997	1997	N	N	N	N	1.6634E-01	
I-129	T	1.605E-08	Ci	1997	1997	N	N	N	N	1.3536E-04	

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 12

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used?	Samples? Y/N**	Num. of Samples	Std Dev	Minimum Value	Maximum Value
I-131	T	1.752E-08	Ci	1997	1997	N					8.0000E-08	

LA-140	T	0.000E+00	Ci	1997	1997	N		Basis for Uncertainty: See additional information Physical Form: Unknown			3.9867E+00	
MN-54	T	2.551E-01	Ci	1997	1997	N		Basis for Uncertainty: See additional information Physical Form: Unknown			5.5814E-01	
NA-22	T	5.953E-04	Ci	1997	1997	N		Basis for Uncertainty: See additional information Physical Form: Unknown			9.1501E-03	
NB-94	T	4.350E-07	Ci	1997	1997	N		Basis for Uncertainty: See additional information Physical Form: Unknown			1.0300E-06	
NB-95	T	2.596E-06	Ci	1997	1997	N		Basis for Uncertainty: See additional information Physical Form: Unknown			5.8800E-06	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used?	Samples? Y/N**	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NI-59	T	3.366E-05	Ci	1997	1997	N	N			1.3024E-04	
NI-63	T	1.634E-03	Ci	1997	1997	N	N			9.7114E-03	
NP-237	T	1.317E-06	Ci	1997	1997	N	N			6.5000E-06	
PA-231	T	5.500E-10	Ci	1997	1997	N	N				
PB-210	T	0.000E+00	Ci	1997	1997	N	N				
PU-238	T	8.391E-04	Ci	1997	1997	N	N			4.1107E-03	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual Total (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
PU-239	T	1.237E-03	Ci	1997	1997	N	N			6.1079E-03	
<hr/>											
PU-240	T	4.389E-05	Ci	1997	1997	N	N			1.7765E-03	
<hr/>											
PU-241	T	1.033E-02	Ci	1997	1997	N	N			3.1250E+01	
<hr/>											
PU-242	T	4.000E-11	Ci	1997	1997	N	N				
<hr/>											
RA-226	T	0.000E+00	Ci	1997	1997	N	N				
<hr/>											
RA-228	T	0.000E+00	Ci	1997	1997	N	N				

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std. Dev.	Minimum Value	Maximum Value
RU-106	T	3.784E-02	Ci	1997	1997	N	N	N	N	1.9490E-01	
SB-124	T	4.697E-06	Ci	1997	1997	N	N	N	N	2.3480E-05	
SB-125	T	2.634E-03	Ci	1997	1997	N	N	N	N	1.0821E-02	
SN-113	T	1.111E-04	Ci	1997	1997	N	N	N	N	5.4677E-04	
SN-117M	T	1.000E-11	Ci	1997	1997	N	N	N	N	1.9992E-01	
SR-89	T	3.378E-02	Ci	1997	1997	N	N	N	N	1.9992E-01	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SR-90	T	6.422E-02	Ci	1997	1997	N	N			3.7975E-01	

TA-182	T	1.752E-04	Ci	1997	1997	N	N			4.1148E-04	
TC-99	T	7.817E-06	Ci	1997	1997	N	N			1.2270E-05	
TE-132	T	0.000E+00	Ci	1997	1997	N	N			1.2270E-05	
TH-228	T	5.729E-08	Ci	1997	1997	N	N			2.8000E-07	
TH-229	T	1.000E-11	Ci	1997	1997	N	N			2.8000E-07	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std. Dev	Minimum Value	Maximum Value
TH-230	T	6.940E-09	Ci	1997	1997	N	N				3.0000E-08
TH-232	T	0.000E+00	Ci	1997	1997	N	N				
U-232	T	1.617E-07	Ci	1997	1997	N	N				
U-233	T	1.728E-08	Ci	1997	1997	N	N				
U-235	T	5.397E-07	Ci	1997	1997	N	N				
U-238	T	8.022E-08	Ci	1997	1997	N	N				

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 18

Waste Stream:	ANL-752-1			Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual (T) Total	Quantity	Units								
Y-90	T	6.422E-02	Ci	1997	1997	N	N				3.7975E-01
ZR-95	T	7.746E-02	Ci	1997	1997	N	N				3.8730E-01
AC-227	T	2.000E-11	Ci	1998	1998	N	N				
AG-110M	T	2.165E-05	Ci	1998	1998	N	N				
AM-241	T	1.401E-04	Ci	1998	1998	N	N				1.2992E-04
AM-243	T	0.000E+00	Ci	1998	1998	N	N				1.0783E+01

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used?	Samples? Y/N**	Num. of Samples	Std Dev	Minimum Value	Maximum Value
BA-140	T	5.568E-05	Ci	1998	1998	N					3.3405E-04	

C-14	T	8.049E-05	Ci	1998	1998	N					2.2307E-04	
CE-144	T	2.036E-01	Ci	1998	1998	N					8.3940E-01	
CL-36	T	0.0000E+00	Ci	1998	1998	N						
CM-244	T	1.0000E-11	Ci	1998	1998	N						
CO-57	T	7.970E-02	Ci	1998	1998	N					7.9697E-02	

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Waste Stream:	ANL-752-1			Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual (T) Total	Quantity	Units								
CO-58	T	1.083E-01	Ci	1998	1998	N	N			1.8011E-01	--
CO-60	T	1.150E-01	Ci	1998	1998	N	N			2.5975E-01	
CR-51	T	1.350E-02	Ci	1998	1998	N	N			2.6568E-02	
CS-134	T	1.605E-02	Ci	1998	1998	N	N			6.5834E-02	
CS-137	T	1.678E-01	Ci	1998	1998	N	N			2.5733E-01	
EU-152	T	1.085E-05	Ci	1998	1998	N	N			1.6160E-05	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
EU-154	T	6.792E-04	Ci	1998	1998	N	N	N	2.6186E-02	
EU-155	T	1.320E-02	Ci	1998	1998	N	N	N	5.2562E-02	
FE-59	T	8.404E-03	Ci	1998	1998	N	N	N	1.0434E-02	
H- 3	T	1.195E-03	Ci	1998	1998	N	N	N	3.6798E-01	
I-129	T	4.675E-08	Ci	1998	1998	N	N	N	3.9431E-04	
I-131	T	5.103E-08	Ci	1998	1998	N	N	N	2.5000E-07	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
LA-140	T	0.000E+00	Ci	1998	1998	N	N				1.1613E+00
MN-54	T	1.911E+00	Ci	1998	1998	N	N				4.1805E+00
NA-22	T	4.154E-03	Ci	1998	1998	N	N				6.3842E-02
NB-94	T	3.035E-06	Ci	1998	1998	N	N				7.2400E-06
NB-95	T	5.319E-05	Ci	1998	1998	N	N				1.2050E-04
NI-59	T	2.349E-04	Ci	1998	1998	N	N				9.0870E-04

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std. Dev	Minimum Value	Maximum Value
NI-63	T	1.140E-02	Ci	1998	1998	N	N				6.7758E-02
NP-237	T	6.172E-07	Ci	1998	1998	N	N				3.0400E-06
PA-231	T	2.600E-10	Ci	1998	1998	N	N				
PB-210	T	0.000E+00	Ci	1998	1998	N	N				
PU-238	T	3.402E-04	Ci	1998	1998	N	N				1.6665E-03
PU-239	T	5.797E-04	Ci	1998	1998	N	N				2.8623E-03

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PU-240	T	1.046E-03	Ci	1998	1998	N	N	N	N	4.2328E-02	
PU-241	T	5.831E-02	Ci	1998	1998	N	N	N	N	1.6671E+02	
PU-242	T	2.000E-11	Ci	1998	1998	N	N	N	N		
RA-226	T	0.0000E+00	Ci	1998	1998	N	N	N	N		
RA-228	T	0.0000E+00	Ci	1998	1998	N	N	N	N		
RU-106	T	1.076E-01	Ci	1998	1998	N	N	N	N	5.5438E-01	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
SB-124	T	1.368E-05	Ci	1998	1998	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
SB-125	T	1.481E-02	Ci	1998	1998	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
SN-113	T	3.237E-04	Ci	1998	1998	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
SN-117M	T	2.000E-11	Ci	1998	1998	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
SR-89	T	9.841E-02	Ci	1998	1998	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
SR-90	T	1.237E-01	Ci	1998	1998	Forecast used? Y/N**

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TA-182	T	5.104E-04	Ci	1998	1998	N	N			1.1987E-03	
TC-99	T	2.277E-05	Ci	1998	1998	N	N			3.5740E-05	
TE-132	T	0.000E+00	Ci	1998	1998	N	N				
TH-228	T	2.685E-08	Ci	1998	1998	N	N			1.3000E-07	
TH-229	T	1.000E-11	Ci	1998	1998	N	N				
TH-230	T	3.250E-09	Ci	1998	1998	N	N			1.0000E-08	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std. Dev	Minimum Value	Maximum Value
TH-232	T	0.000E+00	Ci	1998	1998	N	N				
U-232	T	7.577E-08	Ci	1998	1998	N	N				
U-233	T	8.100E-09	Ci	1998	1998	N	N				
U-234	T	1.081E-04	Ci	1998	1998	N	N				
U-235	T	0.000E+00	Ci	1998	1998	N	N				
U-238	T	0.000E+00	Ci	1998	1998	N	N				

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Y-90	T	1.230E-01	Ci	1998	1998	N	N			7.2731E-01	
ZR-95	T	1.577E-01	Ci	1998	1998	N	N			7.8863E-01	
AC-227	T	6.000E-11	Ci	1999	1999	N	N				
AG-110M	T	1.294E-04	Ci	1999	1999	N	N			7.7640E-04	
AM-241	T	5.105E-07	Ci	1999	1999	N	N			3.9285E-02	
AM-243	T	1.000E-11	Ci	1999	1999	N	N			3.9285E-02	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
BA-140	T	3.188E-04	Ci	1999	1999	N	N		1.9131E-03	
C-14	T	4.142E-05	Ci	1999	1999	N	N		1.1479E-04	
CE-144	T	9.291E-01	Ci	1999	1999	N	N		3.8312E+00	
CL-36	T	0.000E+00	Ci	1999	1999	N	N			
CM-244	T	4.000E-11	Ci	1999	1999	N	N			
CO-57	T	4.101E-02	Ci	1999	1999	N	N		4.1013E-02	

Waste Stream:	ANL-752-1						Waste Gen.	Num. of Samples?	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N**	Y/N*					
CO-58	T	1.464E-03	Ci	1999	1999	N	N					2.4353E-03
CO-60	T	5.917E-02	Ci	1999	1999	N	N					1.3367E-01
CR-51	T	6.950E-03	Ci	1999	1999	N	N					1.3672E-02
CS-134	T	8.030E-02	Ci	1999	1999	N	N					3.2937E-01
CS-137	T	9.611E-01	Ci	1999	1999	N	N					1.4737E+00
EU-152	T	6.213E-05	Ci	1999	1999	N	N					9.2570E-05

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
EU-154	T	3.890E-03	Ci	1999	1999	Forecast used? Y/N**

				Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
							1.4996E-01

Waste Stream:	ANL-752-1			Waste Gen.	Forecast used?	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual Total	Quantity	Units	Begin Year	End Year					
LA-140	T	0.000E+00	Ci	1999	1999	N	N		6.6508E+00	
MN-54	T	1.064E+00	Ci	1999	1999	N	N		2.3272E+00	
NA-22	T	2.137E-03	Ci	1999	1999	N	N		3.2853E-02	
NB-94	T	1.562E-06	Ci	1999	1999	N	N		3.7200E-06	
NB-95	T	3.626E-04	Ci	1999	1999	N	N		8.2151E-04	
NI-59	T	1.209E-04	Ci	1999	1999	N	N		4.6762E-04	

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
NI-63	T	5.865E-03	Ci	1999	1999	N	N	N	3.4869E-02	
NP-237	T	2.147E-06	Ci	1999	1999	N	N	N	1.0600E-05	
PA-231	T	8.900E-10	Ci	1999	1999	N	N	N		
PB-210	T	0.0000E+00	Ci	1999	1999	N	N	N		
PU-238	T	1.248E-03	Ci	1999	1999	N	N	N	6.1138E-03	
PU-239	T	2.017E-03	Ci	1999	1999	N	N	N	9.9587E-03	

Waste Stream:	ANL-752-1						Waste Gen.	Samples?	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual	Begin Year	End Year	Forecast used? Y/N*	Y/N*							
	(T) Total	Quantity	Units									
PU-240	T	6.180E-04	Ci	1999	1999	N	N					2.5015E-02
PU-241	T	8.306E-02	Ci	1999	1999	N	N					2.3747E+02
PU-242	T	6.000E-11	Ci	1999	1999	N	N					
RA-226	T	0.000E+00	Ci	1999	1999	N	N					
RA-228	T	0.000E+00	Ci	1999	1999	N	N					
RU-106	T	6.304E-01	Ci	1999	1999	N	N					3.2473E+00

Waste Stream: ANL-752-1

08/26/02

Page: 35

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SB-124	T	7.835E-05	Ci	1999	1999	N	N	N	N	3.9176E-04	
SB-125	T	7.419E-02	Ci	1999	1999	N	N	N	N	3.0474E-01	
SN-113	T	1.854E-03	Ci	1999	1999	N	N	N	N	9.1215E-03	
SN-117M	T	1.100E-10	Ci	1999	1999	N	N	N	N		
SR-89	T	5.636E-01	Ci	1999	1999	N	N	N	N	3.3352E+00	
SR-90	T	7.113E-01	Ci	1999	1999	N	N	N	N	4.2059E+00	

PART D - RADIOLOGICAL CONTAMINANTS

Waste Stream: ANL-752-1

	(A) Annual radio- nuclide	(T) Total	Quantity	Units	Year begin	Year end	Years used?	Y/N**	Samples	Std Dev	Minimum value	Maximum value
									Sample(s); forecast	Null, U		

TA-182 T 2.923E-03 Ci 1999 1999 N N 6.8645E-03

Basis for Uncertainty: See additional information

TC-99 T 1.304E-04 Ci 1999 1999 N N 2.0471E-04

Basis for Uncertainty: See additional information

TELEGRAMS
TO THE UNITED STATES.
TELEGRAMS
TO THE UNITED STATES.

Basis for Uncertainty: See additional information

Chemical form: Unknown
Physical form: Unknown
Molecular weight: 16000-60

Basis for Uncertainty: See additional information

Chemical Form: Unknown
Physical Form: Unknown

Basis for Uncertainty: See additional information

Chemical Form: Unknown
Physical Form: Unknown

Basis for Uncertainty: See additional information

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used?	Samples? Y/N**	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TH-232	T	0.000E+00	Ci	1999	1999	N	N				
U-232	T	2.636E-07	Ci	1999	1999	N	N				
U-233	T	2.818E-08	Ci	1999	1999	N	N				
U-234	T	4.148E-06	Ci	1999	1999	N	N				
U-235	T	1.981E-04	Ci	1999	1999	N	N				
U-238	T	2.358E-04	Ci	1999	1999	N	N				

Waste Stream: ANL-752-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Y-90	T	7.113E-01	Ci	1999	1999	N	N	N	N	N	4.2059E+00
ZR-95	T	1.065E-01	Ci	1999	1999	N	N	N	N	N	5.3234E-01

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Footnotes:

- * and standard deviation in the next column. If not, mark N and give minimum value and maximum values in the next column
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

PART A - GENERAL INFORMATION

(1) Preparer: JKJ Date Prepared: 01/31/01
 (3,4,5,6) Waste Stream: ANL-763-1 Contact-handled LLW consisting of sludge solidified with grout, soil, rocks, and concrete pieces generated during the clean up of the EBR-II pit.

(7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic: L
 (8) Actual years disposed of at SDA: Starting year: 1994 Ending year: 1998 Annual or Total over all years: T
 (9) Waste stream volume: 149.00000 Units*: M Container or Waste volume: C
 (10) Comments:

PART B - WASTE STREAM CHARACTERISTICS

(1) General physical form: 10 12, 21, 41, 43, 44, 47
 (2) Details on physical form:

(3) Chemical form:

(4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown: PL
 (5) Waste container type: BXW
 (6) Other characteristics of interest:
 (7) Comments: 5. Waste container types also: PB2, RDL, O.

PART C - NONRADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES**Type of source information:**

RWMIS
 Sample analysis data

Details concerning source:

Do the estimates of contaminant quantities represent:
Best estimate | Worst case | Other: B

If other than best estimate, why?:

Do the data conflict with RWMIS?: Y Where appropriate, scaling factors were applied for a better best estimate.
Major unknowns in inventories of contaminants:
Key assumptions used to deal with the unknowns:

CONTINUATION

Continuation of Part: Column or Question Number or Title:

Footnotes:

* Units: cubic feet (FT) | gallons (GL) | grams (GM) | pounds (LB) | cubic meters (M) | unknown (U)

Waste Stream: ANL-763-1

CAS Number	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Num. of Samples?	Std Dev	Minimum Value	Maximum Value
1332-21-4	T	1.385E+03	Gm	1997	1997	N	N		1.3850E+03		2.0775E+03	

Asbestos

Basis for Uncertainty: See additional information
 Physical Form: Solid Chemical Form: Fiber

Footnotes:

- * If sample data are available, mark Y in the column titled "Samples?" and provide the number of samples in the next column and standard deviation in the next column. If not, mark N and give minimum value and maximum value.
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AC-227	T	0.000E+00	Ci	1994	1994	N	N				
AG-110M	T	6.081E-05	Ci	1994	1994	N	N				
AM-241	T	7.703E-06	Ci	1994	1994	N	N				
AM-243	T	0.000E+00	Ci	1994	1994	N	N				
BA-140	T	2.277E-04	Ci	1994	1994	N	N				
C-14	T	2.858E-06	Ci	1994	1994	N	N				

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CE-144	T	3.254E+00	Ci	1994	1994	N	N	N	N	1.3419E+01	
CL-36	T	0.000E+00	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown
CM-244	T	0.000E+00	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown
CO-57	T	2.830E-03	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown
CO-58	T	5.687E-02	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown
CO-60	T	4.083E-03	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used?	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CR-51	T	4.795E-04	Ci	1994	1994	N	N				9.4332E-04
CS-134	T	3.081E-05	Ci	1994	1994	N	N				1.2638E-04
CS-137	T	6.863E-01	Ci	1994	1994	N	N				1.0524E+00
EU-152	T	4.437E-05	Ci	1994	1994	N	N				6.6100E-05
EU-154	T	2.778E-03	Ci	1994	1994	N	N				1.0709E-01
EU-155	T	2.837E-02	Ci	1994	1994	N	N				1.1299E-01

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
FE-59	T	2.984E-04	Ci	1994	1994	N	N			3.7047E-04	
H- 3	T	4.888E-03	Ci	1994	1994	N	N			1.5049E+00	
I-129	T	1.556E-03	Ci	1994	1994	N	N			1.3124E+01	
I-131	T	2.087E-07	Ci	1994	1994	N	N			1.0600E-06	
LA-140	T	0.000E+00	Ci	1994	1994	N	N			4.7494E+00	
MN- 54	T	4.925E-02	Ci	1994	1994	N	N			1.0776E-01	

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual Total (T)	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NA-22	T	1.475E-04	Ci	1994	1994	N	N				2.2668E-03
NB-94	T	1.078E-07	Ci	1994	1994	N	N				2.5000E-07
NB-95	T	6.431E-07	Ci	1994	1994	N	N				1.4500E-07
NI-59	T	8.340E-06	Ci	1994	1994	N	N				3.2260E-05
NI-63	T	4.047E-04	Ci	1994	1994	N	N				2.4058E-03
NP-237	T	7.549E-03	Ci	1994	1994	N	N				3.7272E-02

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual Total (T)	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
PA-231	T	2.000E-11	Ci	1994	1994	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown											
PB-210	T	0.000E+00	Ci	1994	1994	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown											
PU-238	T	2.622E-05	Ci	1994	1994	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown											
PU-239	T	3.852E-05	Ci	1994	1994	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown											
PU-240	T	1.367E-06	Ci	1994	1994	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown											
PU-241	T	4.699E-06	Ci	1994	1994	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown											

Waste Stream:	ANL-763-1			Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual Total	(T) Total	Quantity	Units							
PU-242	T	0.000E+00	Ci	1994	1994	N	N				
RA-226	T	0.000E+00	Ci	1994	1994	N	N				
RA-228	T	0.000E+00	Ci	1994	1994	N	N				
RU-106	T	4.398E-01	Ci	1994	1994	N	N				
SB-124	T	5.595E-05	Ci	1994	1994	N	N				
SB-125	T	4.583E-02	Ci	1994	1994	N	N				

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 8

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SN-113	T	1.324E-03	Ci	1994	1994	N	N			6.5137E-03	
SN-117M	T	8.000E-11	Ci	1994	1994	N	N				
SR-89	T	4.024E-01	Ci	1994	1994	N	N				
SR-90	T	3.481E-02	Ci	1994	1994	N	N				
TA-182	T	2.087E-03	Ci	1994	1994	N	N				
TC-99	T	9.312E-05	Ci	1994	1994	N	N				

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual Total (T)	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TE-132	T	0.000E+00	Ci	1994	1994	N	N				
TH-228	T	1.780E-09	Ci	1994	1994	N	N				
TH-229	T	0.000E+00	Ci	1994	1994	N	N				
TH-230	T	2.200E-10	Ci	1994	1994	N	N				
TH-232	T	0.000E+00	Ci	1994	1994	N	N				
U-232	T	5.030E-09	Ci	1994	1994	N	N				

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N*	Waste Gen. Samples? Y/N*	Num. of Samples	Std. Dev	Minimum Value	Maximum Value
U-233	T	5.400E-10	Ci	1994	1994	N	N	N	N	4.8685E-03	
U-234	T	9.860E-04	Ci	1994	1994	N	N	N	N	2.6621E-04	
U-235	T	5.392E-05	Ci	1994	1994	N	N	N	N	4.5641E-04	
U-238	T	9.244E-05	Ci	1994	1994	N	N	N	N	2.0585E-01	
Y-90	T	3.481E-02	Ci	1994	1994	N	N	N	N	4.6204E+00	
ZR-95	T	9.241E-01	Ci	1994	1994	N	N	N	N		

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AG-110M	T	1.009E-06	Ci	1997	1997	N	N	N	N	6.0500E-06	
BA-140	T	3.779E-06	Ci	1997	1997	N	N	N	N	2.2670E-05	
C-14	T	5.129E-06	Ci	1997	1997	N	N	N	N	1.4210E-05	
CE-144	T	1.052E-02	Ci	1997	1997	N	N	N	N	4.3375E-02	
CL-36	T	0.0000E+00	Ci	1997	1997	N	N	N	N		
CO-57	T	5.078E-03	Ci	1997	1997	N	N	N	N	5.0786E-03	

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std. Dev	Minimum Value	Maximum Value
CO-58	T	2.125E-02	Ci	1997	1997	N	N				3.5359E-02
CO-60	T	7.327E-03	Ci	1997	1997	N	N				1.6552E-02
CR-51	T	8.606E-04	Ci	1997	1997	N	N				1.6930E-03
CS-134	T	9.288E-04	Ci	1997	1997	N	N				3.8096E-03
CS-137	T	1.139E-02	Ci	1997	1997	N	N				1.7466E-02
EU-152	T	7.364E-07	Ci	1997	1997	N	N				1.0900E-06

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
EU-154	T	4.610E-05	Ci	1997	1997	N	N			1.773E-03	
EU-155	T	7.485E-04	Ci	1997	1997	N	N			2.9806E-03	
FE-59	T	5.355E-04	Ci	1997	1997	N	N			6.6489E-04	
H-3	T	8.112E-05	Ci	1997	1997	N	N			2.4976E-02	
I-129	T	3.170E-09	Ci	1997	1997	N	N			2.6760E-05	
I-131	T	3.460E-09	Ci	1997	1997	N	N			1.0000E-08	

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 14

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
LA-140	T	0.000E+00	Ci	1997	1997	N	N			7.8824E+00	
MN-54	T	1.110E-01	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
NA-22	T	2.647E-04	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
NB-94	T	1.934E-07	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
NB-95	T	1.154E-06	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
NI-59	T	1.497E-05	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 15

Waste Stream:	ANL-763-1			Begin Year	End Year	Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual Total	(T) Total	Quantity	Units								
NI-63	T	7.263E-04	Ci	1997	1997	N						4.3178E-03
PB-210	T	0.000E+00	Ci	1997	1997	N						
PU-241	T	4.130E-03	Ci	1997	1997	N						
RA-226	T	0.000E+00	Ci	1997	1997	N						
RA-228	T	0.000E+00	Ci	1997	1997	N						
RU-106	T	7.343E-03	Ci	1997	1997	N						3.7828E-02

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

Page: 16

08/26/02

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
SB-124	T	9.286E-07	Ci	1997	1997	N	N				4.6400E-06
<hr/>											
SB-125	T	8.561E-04	Ci	1997	1997	N	N				3.5165E-03
<hr/>											
SN-113	T	2.197E-05	Ci	1997	1997	N	N				1.0810E-04
<hr/>											
SN-117M	T	0.000E+00	Ci	1997	1997	N	N				3.9528E-02
<hr/>											
SR-89	T	6.679E-03	Ci	1997	1997	N	N				4.8956E-02
<hr/>											
SR-90	T	8.280E-03	Ci	1997	1997	N	N				

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TA-182	T	3.464E-05	Ci	1997	1997	N	N				8.1350E-05
TC-99	T	1.546E-06	Ci	1997	1997	N	N				2.4200E-06
TE-132	T	0.000E+00	Ci	1997	1997	N	N				
U-235	T	8.190E-07	Ci	1997	1997	N	N				4.0400E-06
U-238	T	2.190E-07	Ci	1997	1997	N	N				1.0800E-06
Y-90	T	8.280E-03	Ci	1997	1997	N	N				4.8956E-02

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 18

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
ZR-95	T	1.534E-02	Ci	1997	1997		N	N		7.6683E-02	--
AG-110M	T	5.940E-08	Ci	1998	1998		N	N		3.5000E-07	--
BA-140	T	2.224E-07	Ci	1998	1998		N	N		1.3300E-06	--
C-14	T	2.756E-07	Ci	1998	1998		N	N		7.6000E-07	--
CE-144	T	6.186E-04	Ci	1998	1998		N	N		2.5507E-03	--
CL-36	T	0.000E+00	Ci	1998	1998		N	N		Chemical Form: Unknown	Chemical Form: Unknown

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CO-57	T	2.729E-04	Ci	1998	1998	N	N	N	N	2.7287E-04	
CO-58	T	5.484E-03	Ci	1998	1998	N	N	N	N	9.1237E-03	
CO-60	T	3.937E-04	Ci	1998	1998	N	N	N	N	8.8936E-04	
CR-51	T	4.624E-05	Ci	1998	1998	N	N	N	N	9.0960E-05	
CS-134	T	5.270E-05	Ci	1998	1998	N	N	N	N	2.1616E-04	
CS-137	T	6.703E-04	Ci	1998	1998	N	N	N	N	1.0278E-03	

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std. Dev.	Minimum Value	Maximum Value
EU-152	T	4.333E-08	Ci	1998	1998	N	N			6.0000E-08	
EU-154	T	2.713E-06	Ci	1998	1998	N	N			1.0458E-04	
EU-155	T	2.771E-05	Ci	1998	1998	N	N			1.1035E-04	
FE-59	T	2.877E-05	Ci	1998	1998	N	N			3.5720E-05	
H-3	T	4.774E-06	Ci	1998	1998	N	N			1.4697E-03	
I-129	T	1.900E-10	Ci	1998	1998	N	N			1.5700E-06	

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
I-131	T	2.000E-10	Ci	1998	1998	N	N				
La-140	T	0.000E+00	Ci	1998	1998	N	N				4.6385E+00
MN-54	T	6.534E-03	Ci	1998	1998	N	N				1.4296E-02
NA-22	T	1.422E-05	Ci	1998	1998	N	N				2.1858E-04
NB-94	T	1.039E-08	Ci	1998	1998	N	N				2.0000E-08
NB-95	T	6.201E-08	Ci	1998	1998	N	N				1.4000E-07

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NI-59	T	8.042E-07	Ci	1998	1998	N	N	N	N	3.1100E-06	
NI-63	T	3.902E-05	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N	N	2.3199E-04	
PB-210	T	0.0000E+00	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N	N	2.3199E-04	
RA-226	T	0.0000E+00	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N	N	2.3199E-04	
RA-228	T	0.0000E+00	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N	N	2.3199E-04	
RU-106	T	4.317E-04	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N	N	2.2238E-03	

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02 Page: 23

Waste Stream: ANL-763-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SB-124	T	5.465E-08	Ci	1998	1998	N	N			2.7000E-07	
SB-125	T	4.789E-05	Ci	1998	1998	N	N			1.9669E-04	
SN-113	T	1.293E-06	Ci	1998	1998	N	N			6.3600E-06	
SN-117M	T	0.000E+00	Ci	1998	1998	N	N				
SR-89	T	3.930E-04	Ci	1998	1998	N	N			2.3261E-03	
SR-90	T	4.866E-04	Ci	1998	1998	N	N			2.8772E-03	

Waste Stream: ANL-763-1

Radio- nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
TA-182	T	2.038E-06	Ci	1998	1998	N	N		4.7800E-06	
TC-99	T	9.095E-08	Ci	1998	1998	N	N		1.4000E-07	
TE-132	T	0.0000E+00	Ci	1998	1998	N	N			
Y-90	T	4.866E-04	Ci	1998	1998	N	N		2.8772E-03	
ZR-95	T	9.025E-04	Ci	1998	1998	N	N		4.5125E-03	

Footnotes:

- * and standard deviation in the next column. If not, mark N and give minimum value and maximum values in the next column
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

PART A - GENERAL INFORMATION

(1) Preparer: JKM (2) Date Prepared: 01/31/01
 (3, 4, 5, 6) Waste Stream: ANL-765-1 Contact-handled, nonprocessable LLW generated during FCP operations, maintenance,
 modifications,

(7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic: L
 (8) Actual years disposed of at SDA: Starting year: 1994 Ending year: 1999 Annual or Total over all years: T
 (9) Waste stream volume: 186.00000 Units*: M
 (10) Comments: C

PART B - WASTE STREAM CHARACTERISTICS

(1) General physical form: 10 21, 41, 42, 47, 44, 22
 (2) Details on physical form:

(3) Chemical form:
 (4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown: PL PB also
 (5) Waste container type: BXW
 (6) Other characteristics of interest:
 (7) Comments: 5. Waste container types also: BB2, PB3, RDL.

PART C - NONRADIOLOGICAL CONTAMINANTS - Additional information or explanations:
 Basis for uncertainty is discussed in document text for ANL.

PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES

Type of source information:

X RWMS	Generator forecasts
Sample analysis data	X Other database
	Expert judgment
	Other: IWTs

Details concerning source:

Do the estimates of contaminant quantities represent: Best estimate | Worst case | Other: B

If other than best estimate, why?:

Do the data conflict with RWMS?: Y Where appropriate as explained in document text, scaling factors were applied for a better curie estimate.

Major unknowns in inventories of contaminants:

Key assumptions used to deal with the unknowns:

CONTINUATION

Continuation of Part: Column or Question Number or Title:

Footnotes:

- * Units: cubic feet (FT) | gallons (GL) | grams (GM) | pounds (LB) | cubic meters (M) | unknown (U)

CAS Number	(A) Annual Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
1332-21-4	T	1.038E+04	Gm	1994	1994	N	N		1.0385E+04	1.5578E+04	
Asbestos											
1332-21-4	T	1.385E+03	Gm	1995	1995	N	N		1.3850E+03	2.0775E+03	
Asbestos											
1332-21-4	T	1.562E+05	Gm	1998	1998	N	N		1.5616E+05	2.3424E+05	
Asbestos											

Footnotes:

* If sample data are available, mark Y in the column titled "Samples?" and provide the number of samples in the next column and standard deviation in the next column. If not, mark N and give minimum value and maximum value.

** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AC-227	T	1.700E-10	Ci	1994	1994	N	N				
AG-110M	T	5.296E-05	Ci	1994	1994	N	N				
AM-241	T	1.503E-06	Ci	1994	1994	N	N				
AM-243	T	4.000E-11	Ci	1994	1994	N	N				
BA-140	T	1.983E-04	Ci	1994	1994	N	N				
C-14	T	3.248E-04	Ci	1994	1994	N	N				

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CE-144	T	8.866E-01	Ci	1994	1994	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CL-36	T	0.000E+00	Ci	1994	1994	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CM-244	T	1.300E-10	Ci	1994	1994	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CO-57	T	3.216E-01	Ci	1994	1994	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CO-58	T	3.956E-02	Ci	1994	1994	Forecast used? Y/N**

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CO-60	T	4.640E-01	Ci	1994	1994	Forecast used? Y/N**

Basis for Uncertainty: See additional information
Physical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CR-51	T	5.450E-02	Ci	1994	1994	N	N			1.0722E-01	
CS-134	T	4.484E-02	Ci	1994	1994	N	N			1.8390E-01	
CS-137	T	5.977E-01	Ci	1994	1994	N	N			9.1641E-01	
EU-152	T	3.864E-05	Ci	1994	1994	N	N			5.7560E-05	
EU-154	T	7.989E-03	Ci	1994	1994	N	N			3.0802E-01	
EU-155	T	4.312E-02	Ci	1994	1994	N	N			1.7172E-01	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
FE-59	T	3.391E-02	Ci	1994	1994	N	N			4.2107E-02	
H-3	T	1.397E-01	Ci	1994	1994	N	N			4.3024E+01	
I-129	T	1.665E-07	Ci	1994	1994	N	N			1.4043E-03	
I-131	T	1.817E-07	Ci	1994	1994	N	N			9.2000E-07	
LA-140	T	0.000E+00	Ci	1994	1994	N	N			4.1358E+00	
MN-54	T	5.297E-02	Ci	1994	1994	N	N			1.1589E-01	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NA-22	T	2.382E-03	Ci	1994	1994	N	N	N		3.6621E-02	
NB-94	T	1.225E-05	Ci	1994	1994	N	N	N		2.9210E-05	
NB-95	T	8.273E-03	Ci	1994	1994	N	N	N		1.8742E-02	
NI-59	T	9.479E-04	Ci	1994	1994	N	N	N		3.6672E-03	
NI-63	T	4.600E-02	Ci	1994	1994	N	N	N		2.7344E-01	
NP-237	T	6.322E-06	Ci	1994	1994	N	N	N		3.1210E-05	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PA-231	T	2.630E-09	Ci	1994	1994	N	N	N	N	1.0000E-08	
PB-210	T	0.000E+00	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	
PU-238	T	4.028E-03	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	
PU-239	T	5.938E-03	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	
PU-240	T	2.107E-04	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	
PU-241	T	7.243E-04	Ci	1994	1994	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PU-242	T	1.700E-10	Ci	1994	1994	N	N				
RA-226	T	0.000E+00	Ci	1994	1994	N	N				
RA-228	T	0.000E+00	Ci	1994	1994	N	N				
RU-106	T	3.830E-01	Ci	1994	1994	N	N				
SB-124	T	4.872E-05	Ci	1994	1994	N	N				
SB-125	T	3.991E-02	Ci	1994	1994	N	N				

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SN-113	T	1.153E-03	Ci	1994	1994	N	N				5.6722E-03
SN-117M	T	7.000E-11	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown
SR-89	T	3.505E-01	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown
SR-90	T	2.998E+00	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown
TA-182	T	3.492E-02	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown
TC-99	T	8.109E-05	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TE-132	T	0.000E+00	Ci	1994	1994	N	N				
TH-228	T	2.750E-07	Ci	1994	1994	N	N				1.3500E-06
TH-229	T	6.000E-11	Ci	1994	1994	N	N				
TH-230	T	3.330E-08	Ci	1994	1994	N	N				1.6000E-07
TH-232	T	0.000E+00	Ci	1994	1994	N	N				
U-232	T	7.760E-07	Ci	1994	1994	N	N				3.7900E-06

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 10

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
U-233	T	8.295E-08	Ci	1994	1994	N	N				4.0000E-07
Y-90	T	2.998E+00	Ci	1994	1994	N	N				1.7730E+01
ZR-95	T	2.895E-02	Ci	1994	1994	N	N				1.4475E-01
AC-227	T	1.0000E-11	Ci	1995	1995	N	N				1.4475E-01
AG-110M	T	1.533E-05	Ci	1995	1995	N	N				9.2000E-05
AM-241	T	5.481E-08	Ci	1995	1995	N	N				4.2182E-03

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual Total	(T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AM-243	T		0.0000E+00	Ci	1995	1995	N	N				
BA-140	T		5.7411E-05	Ci	1995	1995	N	N				3.4444E-04
C-14	T		9.4111E-05	Ci	1995	1995	N	N				2.6082E-04
CE-144	T		2.9000E-02	Ci	1995	1995	N	N				1.1960E-01
CL-36	T		0.0000E+00	Ci	1995	1995	N	N				
CM-244	T		0.0000E+00	Ci	1995	1995	N	N				

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 12

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CO-57	T	9.318E-02	Ci	1995	1995	N	N				9.3183E-02
CO-58	T	1.152E-02	Ci	1995	1995	N	N				1.9158E-02
CO-60	T	1.344E-01	Ci	1995	1995	N	N				3.0371E-01
CR-51	T	1.579E-02	Ci	1995	1995	N	N				3.1063E-02
CS-134	T	1.298E-02	Ci	1995	1995	N	N				5.3245E-02
CS-137	T	1.730E-01	Ci	1995	1995	N	N				2.6533E-01

Waste Stream:	ANL-765-1						Waste Gen.	Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual	Quantity	Units	Begin Year	End Year								
	(T) Total												
EU-152	T	1.119E-05	Ci	1995	1995	N							1.6660E-05
EU-154	T	2.390E-03	Ci	1995	1995	N							9.2152E-02
EU-155	T	1.239E-02	Ci	1995	1995	N							4.9322E-02
FE-59	T	9.826E-03	Ci	1995	1995	N							1.2200E-02
H-3	T	4.045E-02	Ci	1995	1995	N							1.2453E+01
I-129	T	4.821E-08	Ci	1995	1995	N							4.0658E-04

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
I-131	T	5.261E-08	Ci	1995	1995	N	N	N	N	2.6000E-07	
LA-140	T	0.000E+00	Ci	1995	1995	N	N	N	N	1.1975E+00	
MN-54	T	1.542E-02	Ci	1995	1995	N	N	N	N	3.3727E-02	
NA-22	T	6.517E-04	Ci	1995	1995	N	N	N	N	1.0017E-02	
NB-94	T	3.549E-06	Ci	1995	1995	N	N	N	N	8.4600E-06	
NB-95	T	2.389E-03	Ci	1995	1995	N	N	N	N	5.4129E-03	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NI-59	T	2.746E-04	Ci	1995	1995	N	N	N	N	N	1.0625E-03
NI-63	T	1.333E-02	Ci	1995	1995	N	N	N	N	N	7.9224E-02
NP-237	T	2.306E-07	Ci	1995	1995	N	N	N	N	N	1.1300E-06
PA-231	T	1.000E-10	Ci	1995	1995	N	N	N	N	N	1.1300E-06
PB-210	T	0.000E+00	Ci	1995	1995	N	N	N	N	N	1.1300E-06
PU-238	T	1.469E-04	Ci	1995	1995	N	N	N	N	N	7.1967E-04

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 16

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PU-239	T	2.166E-04	Ci	1995	1995	N	N			1.0693E-03	
PU-240	T	7.684E-06	Ci	1995	1995	N	N			3.1102E-04	
PU-241	T	2.642E-05	Ci	1995	1995	N	N			7.5528E-02	
PU-242	T	1.000E-11	Ci	1995	1995	N	N				
RA-226	T	0.000E+00	Ci	1995	1995	N	N				
RA-228	T	0.000E+00	Ci	1995	1995	N	N				

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

Waste Stream: ANL-765-1

Page: 17

08/26/02

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
RU-106	T	1.109E-01	Ci	1995	1995	N	N	N	N	5.7124E-01	
SB-124	T	1.411E-05	Ci	1995	1995	N	N	N	N	7.0530E-05	
SB-125	T	1.156E-02	Ci	1995	1995	N	N	N	N	4.7463E-02	
SN-113	T	3.338E-04	Ci	1995	1995	N	N	N	N	1.6423E-03	
SN-117M	T	2.000E-11	Ci	1995	1995	N	N	N	N		
SR-89	T	1.015E-01	Ci	1995	1995	N	N	N	N	6.0050E-01	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SR-90	T	8.664E-01	Ci	1995	1995	N	N			5.1227E+00	

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TA-182	T	9.997E-03	Ci	1995	1995	N	N			2.3480E-02	
TC-99	T	2.348E-05	Ci	1995	1995	N	N			3.6850E-05	
TE-132	T	0.000E+00	Ci	1995	1995	N	N				
TH-228	T	1.003E-08	Ci	1995	1995	N	N			4.0000E-08	
TH-229	T	0.000E+00	Ci	1995	1995	N	N				

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TH-230	T	1.210E-09	Ci	1995	1995	N	N				

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TH-232	T	0.000E+00	Ci	1995	1995	N	N				

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
U-232	T	2.831E-08	Ci	1995	1995	N	N				

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
U-233	T	3.030E-09	Ci	1995	1995	N	N				

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Y-90	T	8.664E-01	Ci	1995	1995	N	N				

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
ZR-95	T	8.318E-03	Ci	1995	1995	N	N				

Basis for Uncertainty: See additional information
Physical Form: Unknown

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AC-227	T	3.000E-11	Ci	1998	1998	N						
AG-110M	T	2.183E-05	Ci	1998	1998	N						
AM-241	T	2.846E-07	Ci	1998	1998	N						
AM-243	T	1.000E-11	Ci	1998	1998	N						
BA-140	T	7.917E-05	Ci	1998	1998	N						
C-14	T	9.816E-05	Ci	1998	1998	N						

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CE-144	T	2.202E-01	Ci	1998	1998	N	N				9.0792E-01
CL-36	T	0.000E+00	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown
CM-244	T	2.000E-11	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown
CO-57	T	9.719E-02	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown
CO-58	T	3.770E-03	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown
CO-60	T	1.402E-01	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CR-51	T	1.647E-02	Ci	1998	1998	N	N			3.2399E-02	
CS-134	T	1.953E-02	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown					
CS-137	T	2.386E-01	Ci	1998	1998	N	N			8.0119E-02	
EU-152	T	1.543E-05	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown					
EU-154	T	9.658E-04	Ci	1998	1998	N	N			3.6592E-01	
EU-155	T	1.612E-02	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown					
										6.4196E-02	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
FE-59	T	1.025E-02	Ci	1998	1998	N	N			1.2724E-02	
H-3	T	1.700E-03	Ci	1998	1998	N	N			5.2326E-01	
I-129	T	6.648E-08	Ci	1998	1998	N	N			5.6071E-04	
I-131	T	7.256E-08	Ci	1998	1998	N	N			3.6000E-07	
LA-140	T	0.000E+00	Ci	1998	1998	N	N			1.6514E+00	
MN-54	T	2.324E+00	Ci	1998	1998	N	N			5.0859E+00	

Waste Stream: ANL-765-1

08/26/02 Page: 24

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
NA-22	T	5.065E-03	Ci	1998	1998	N	N			7.7854E-02	
NB-94	T	3.702E-06	Ci	1998	1998	N	N			8.8200E-06	
NB-95	T	5.009E-05	Ci	1998	1998	N	N			1.1347E-04	
NI-59	T	2.864E-04	Ci	1998	1998	N	N			1.1082E-03	
NI-63	T	1.390E-02	Ci	1998	1998	N	N			8.2630E-02	
NP-237	T	1.197E-06	Ci	1998	1998	N	N			5.9100E-06	
<hr/>											
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PA-231	T	5.000E-10	Ci	1998	1998	N	N				
PB-210	T	0.000E+00	Ci	1998	1998	N	N				
PU-238	T	7.627E-04	Ci	1998	1998	N	N				
PU-239	T	1.124E-03	Ci	1998	1998	N	N				
PU-240	T	1.156E-03	Ci	1998	1998	N	N				
PU-241	T	1.113E-01	Ci	1998	1998	N	N				

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 26

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PU-242	T	3.000E-11	ci	1998	1998	N	N				

RA-226	T	0.000E+00	ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown			Chemical Form: Unknown		
RA-228	T	0.000E+00	ci	1998	1998	N	N				
RU-106	T	1.538E-01	ci	1998	1998	N	N				
SB-124	T	1.945E-05	ci	1998	1998	N	N				
SB-125	T	1.590E-02	ci	1998	1998	N	N				

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SN-113	T	4.603E-04	Ci	1998	1998	N	N				2.2649E-03
SN-117M	T	3.0000E-11	Ci	1998	1998	N	N				
SR-89	T	1.399E-01	Ci	1998	1998	N	N				
SR-90	T	2.423E-01	Ci	1998	1998	N	N				
TA-182	T	7.257E-04	Ci	1998	1998	N	N				
TC-99	T	3.238E-05	Ci	1998	1998	N	N				

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TE-132	T	0.000E+00	Ci	1998	1998	N	N				
TH-228	T	5.207E-08	Ci	1998	1998	N	N				
TH-229	T	1.000E-11	Ci	1998	1998	N	N				
TH-230	T	6.310E-09	Ci	1998	1998	N	N				
TH-232	T	0.000E+00	Ci	1998	1998	N	N				
U-232	T	1.470E-07	Ci	1998	1998	N	N				

Waste Stream: ANL-765-1

PART D - RADIOLOGICAL CONTAMINANTS

Page: 29

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
U-233	T	1.571E-08	Ci	1998	1998	N	N			7.0000E-08	
U-234	T	5.934E-06	Ci	1998	1998	N	N			2.9300E-05	
Y-90	T	1.734E-01	Ci	1998	1998	N	N			1.0255E+00	
ZR-95	T	3.062E-01	Ci	1998	1998	N	N			1.5312E+00	
AC-227	T	1.0000E-10	Ci	1999	1999	N	N				
AG-110M	T	3.560E-05	Ci	1999	1999	N	N			2.1360E-04	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AM-241	T	9.146E-07	Ci	1999	1999	N	N	N	N	7.0389E-02	
AM-243	T	2.0000E-11	Ci	1999	1999	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	
BA-140	T	1.042E-04	Ci	1999	1999	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	
C-14	T	1.290E-04	Ci	1999	1999	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	
CE-144	T	2.898E-01	Ci	1999	1999	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	
CL-36	T	0.000E+00	Ci	1999	1999	N	N	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
CM-244	T	8.000E-11	Ci	1999	1999	N	N				
CO-57	T	1.278E-01	Ci	1999	1999	N	N				
CO-58	T	4.201E-03	Ci	1999	1999	N	N				
CO-60	T	1.843E-01	Ci	1999	1999	N	N				
CR-51	T	2.165E-02	Ci	1999	1999	N	N				
CS-134	T	2.568E-02	Ci	1999	1999	N	N				

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CS-137	T	3.141E-01	Ci	1999	1999	N	N			4.8160E-01	
EU-152	T	2.030E-05	Ci	1999	1999	N	N			3.0250E-05	
EU-154	T	1.271E-03	Ci	1999	1999	N	N			4.9009E-02	
EU-155	T	2.118E-02	Ci	1999	1999	N	N			8.4348E-02	
FE-59	T	1.347E-02	Ci	1999	1999	N	N			1.6726E-02	
H-3	T	2.237E-03	Ci	1999	1999	N	N			6.8869E-01	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
I-129	T	8.750E-08	Ci	1999	1999	N	N	N		7.3798E-04	
I-131	T	9.550E-08	Ci	1999	1999	N	N	N		4.8000E-07	
LA-140	T	0.0000E+00	Ci	1999	1999	N	N	N		2.1735E+00	
MN-54	T	3.055E+00	Ci	1999	1999	N	N	N		6.6832E+00	
NA-22	T	6.658E-03	Ci	1999	1999	N	N	N		1.0234E-01	
NB-94	T	4.866E-06	Ci	1999	1999	N	N	N		1.1600E-05	

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NB-95	T	9.478E-05	Ci	1999	1999	N	N	N	N	2.1472E-04	
NI-59	T	3.765E-04	Ci	1999	1999	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown		1.4567E-03	
NI-63	T	1.827E-02	Ci	1999	1999	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown		1.0862E-01	
NP-237	T	3.848E-06	Ci	1999	1999	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown		1.8990E-05	
PA-231	T	1.600E-09	Ci	1999	1999	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown			
PB-210	T	0.000E+00	Ci	1999	1999	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown			

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 35

Waste Stream:	ANL-765-1			Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual (T) Total	Quantity	Units								
PU-238	T	2.451E-03	Ci	1999	1999	N	N				1.2009E-02
PU-239	T	3.614E-03	Ci	1999	1999	N	N				1.7844E-02
PU-240	T	3.709E-03	Ci	1999	1999	N	N				1.5012E-01
PU-241	T	1.469E-01	Ci	1999	1999	N	N				4.1993E+02
PU-242	T	1.000E-10	Ci	1999	1999	N	N				
RA-226	T	0.000E+00	Ci	1999	1999	N	N				

Waste Stream: ANL-7655-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
RA-228	T	0.000E+00	Ci	1999	1999	N	N				
RU-106	T	2.021E-01	Ci	1999	1999	N	N				
SB-124	T	2.560E-05	Ci	1999	1999	N	N				
SB-125	T	2.377E-02	Ci	1999	1999	N	N				
SN-113	T	6.058E-04	Ci	1999	1999	N	N				
SN-117M	T	4.000E-11	Ci	1999	1999	N	N				

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SR-89	T	1.842E-01	Ci	1999	1999	N	N			1.0900E+00	
SR-90	T	2.280E-01	Ci	1999	1999	N	N			1.3484E+00	
TA-182	T	9.552E-04	Ci	1999	1999	N	N			2.2434E-03	
TC-99	T	4.262E-05	Ci	1999	1999	N	N			6.6900E-05	
TE-132	T	0.000E+00	Ci	1999	1999	N	N				
TH-228	T	1.674E-07	Ci	1999	1999	N	N			8.2000E-07	

Waste Stream: ANL-765-1

Page: 38

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
TH-229	T	3.000E-11	Ci	1999	1999	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											
TH-230	T	2.027E-08	Ci	1999	1999	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											
TH-232	T	0.000E+00	Ci	1999	1999	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											
U-232	T	4.723E-07	Ci	1999	1999	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											
U-233	T	5.049E-08	Ci	1999	1999	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											
U-234	T	9.700E-06	Ci	1999	1999	N	N				
Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown											

Waste Stream: ANL-765-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Y-90	T	2.280E-01	Ci	1999	1999	N	N				1.3484E+00

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Basis for Uncertainty: See additional information
Physical Form: Unknown Chemical Form: Unknown

Footnotes:

- * and standard deviation in the next column. If not, mark N and give minimum value and maximum values in the next column
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

PART A - GENERAL INFORMATION

- (1) Preparer: JKJ Date Prepared: 01/31/01
(3, 4, 5, 6) Waste Stream: ANL-785-1 Remote-handled, subassembly LLM generated during nuclear fuel and materials experiments in the HFFEF.
- (7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic:
(8) Actual years disposed of at SDA: Starting year: 1994 Ending year: 1994 Annual or Total over all years: T L
- (9) Waste stream volume: 0.10000 Units*: M Container or Waste volume: C
- (10) Comments:

PART B - WASTE STREAM CHARACTERISTICS

- (1) General physical form: 5
(2) Details on physical form:
- (3) Chemical form:
(4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown: NO
(5) Waste container type: I
(6) Other characteristics of interest:
(7) Comments:

PART C - NONRADIOLOGICAL CONTAMINANTS - Additional information or explanations:**PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:**

Basis for uncertainty is discussed in document text for ANL.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES

Type of source information:
 RWMIS
Sample analysis data
Other:

Details concerning source:

Do the estimates of contaminant quantities represent: Best estimate | Worst case | Other: B

If other than best estimate, why?:

Do the data conflict with RWMIS?: Y Where appropriate, scaling factors were applied for a better best estimate.
Major unknowns in inventories of contaminants:
Key assumptions used to deal with the unknowns:

CONTINUATION

Continuation of Part: Column or Question Number or Title:

Footnotes:

* Units: cubic feet (FT) | gallons (GL) | grams (GM) | pounds (LB) | cubic meters (M) | unknown (U)

Waste Stream: ANL-785-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std. Dev.	Minimum Value	Maximum Value
AC-227	T	0.000E+00	Ci	1994	1994	N	N				
AM-241	T	1.600E-10	Ci	1994	1994	N	N				
AM-243	T	0.000E+00	Ci	1994	1994	N	N				
C-14	T	7.105E+00	Ci	1994	1994	N	N				
CL-36	T	0.000E+00	Ci	1994	1994	N	N				
CM-244	T	0.000E+00	Ci	1994	1994	N	N				

Waste Stream: ANL-785-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CO-57	T	7.035E+03	Ci	1994	1994	N	N				7.0350E+03
CO-58	T	4.600E+02	Ci	1994	1994	N	N				7.6530E+02
CO-60	T	1.015E+04	Ci	1994	1994	N	N				2.2929E+04
CR-51	T	1.400E+00	Ci	1994	1994	N	N				2.7541E+00
FE-59	T	1.700E+00	Ci	1994	1994	N	N				2.1107E+00
MN-54	T	1.682E+03	Ci	1994	1994	N	N				3.6801E+03

Waste Stream: ANL-785-1

Radio-nuclide	(A) Annual Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std. Dev	Minimum Value	Maximum Value
NA-22	T	3.666E+02	Ci	1994	1994	N	N	N	N	5.6354E+03	
NB-94	T	2.679E-01	Ci	1994	1994	N	N	N	N	6.3912E-01	
NB-95	T	1.599E+00	Ci	1994	1994	N	N	N	N	3.6217E+00	
NI-59	T	2.073E+01	Ci	1994	1994	N	N	N	N	8.0213E+01	
NI-63	T	1.006E+03	Ci	1994	1994	N	N	N	N	5.9811E+03	
NP-237	T	6.600E-10	Ci	1994	1994	N	N	N	N		

Waste Stream: ANL-785-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PA-231	T	0.000E+00	Ci	1994	1994	N	N				2.0400E-06

Basis for Uncertainty: See additional information Physical Form: Unknown											
PU-238	T	4.174E-07	Ci	1994	1994	N	N				
PU-239	T	6.154E-07	Ci	1994	1994	N	N				
PU-240	T	1.135E-08	Ci	1994	1994	N	N				4.5000E-07
PU-241	T	7.507E-08	Ci	1994	1994	N	N				2.1461E-04
PU-242	T	0.000E+00	Ci	1994	1994	N	N				

Waste Stream:	ANL-785-1			Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual Total	Quantity	Units								
TH-228	T	3.000E-11	Ci	1994	1994	N	N				
TH-229	T	0.000E+00	Ci	1994	1994	N	N				
TH-230	T	0.000E+00	Ci	1994	1994	N	N				
TH-232	T	0.000E+00	Ci	1994	1994	N	N				
U-232	T	8.000E-11	Ci	1994	1994	N	N				
U-233	T	1.000E-11	Ci	1994	1994	N	N				

Footnotes:

- * and standard deviation in the next column. If not, mark N and give minimum value and maximum values in the next column
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

PART A - GENERAL INFORMATION

- (1) Preparer: JKM (2) Date Prepared: 01/31/01
(3, 4, 5, 6) Waste Stream: ANL-785-2 Contact-handled, nonprocessable LLW generated during HFFEF operations, maintenance, modifications, and monitoring.
- (7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic:
(8) Actual years disposed of at SDA: Starting year: 1997 Ending year: 1999 Annual or Total over all years: T L
(9) Waste stream volume: 147.30000 Units*: M
(10) Comments: C

PART B - WASTE STREAM CHARACTERISTICS

- (1) General physical form: 10 21, 42, 47, 41, 43, 44, 22
(2) Details on physical form:

(3) Chemical form:

- (4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown:
(5) Waste container type: BIN PB PL
(6) Other characteristics of interest:
(7) Comments: 1. Approximately 0.02% of total waste stream volume is absorbed liquid.

5. Waste container types: BXM, BLM, PB2, PB3.

PART C - NONRADIOLOGICAL CONTAMINANTS - Additional information or explanations:
Basis for uncertainty is discussed in document text for ANL.

PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES

Type of source information:

X RWMIS	Generator forecasts
Sample analysis data	X Other database
	Expert judgment
Other: IWTS	Other:

Details concerning source:

Do the estimates of contaminant quantities represent: Best estimate | Worst case | Other: B

If other than best estimate, why?:

Do the data conflict with RWMIS?: Y Where appropriate, scaling factors were applied for a better best estimate.
Major unknowns in inventories of contaminants:
Key assumptions used to deal with the unknowns:

CONTINUATION

Continuation of Part: Column or Question Number or Title:

Footnotes:

- * Units: cubic feet (FT) | gallons (GL) | grams (GM) | pounds (LB) | cubic meters (M) | unknown (U)

Waste Stream: ANL-785-2

CAS Number	(A) Annual Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
1332-21-4	T	6.539E+04	Gm	1997	1997	N	N		6.5387E+04	9.8080E+04	

Asbestos

Basis for Uncertainty: See additional information.
Physical Form: Solid
Chemical Form:Fiber

Footnotes:

- * If sample data are available, mark Y in the column titled "Samples?" and provide the number of samples in the next column and standard deviation in the next column. If not, mark N and give minimum value and maximum value.
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AC-227	T	2.000E-10	Ci	1997	1997	N	N				
AG-110M	T	6.575E-05	Ci	1997	1997	N	N				
AM-241	T	1.186E-02	Ci	1997	1997	N	N				
AM-243	T	4.000E-11	Ci	1997	1997	N	N				
BA-140	T	1.732E-04	Ci	1997	1997	N	N				
C-14	T	1.722E-05	Ci	1997	1997	N	N				

Waste Stream: ANL-785-2

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CR-51	T	2.888E-03	Ci	1997	1997	N	N				5.6823E-03
CS-134	T	4.292E-02	Ci	1997	1997	N	N				1.7606E-01
CS-137	T	5.222E-01	Ci	1997	1997	N	N				8.0075E-01
EU-152	T	3.376E-05	Ci	1997	1997	N	N				5.0300E-05
EU-154	T	4.143E-03	Ci	1997	1997	N	N				1.5974E-01
EU-155	T	3.529E-02	Ci	1997	1997	N	N				1.4052E-01

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
FE-59	T	1.797E-03	Ci	1997	1997	N	N		2.2317E-03	
H-3	T	3.718E-03	Ci	1997	1997	N	N		1.1448E+00	
I-129	T	1.455E-07	Ci	1997	1997	N	N		1.2270E-03	
I-131	T	1.588E-07	Ci	1997	1997	N	N		8.0000E-07	
LA-140	T	0.000E+00	Ci	1997	1997	N	N		3.6138E+00	
MN-54	T	4.103E-01	Ci	1997	1997	N	N		8.9764E-01	

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used?	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NA-22	T	8.884E-04	Ci	1997	1997	N	N				1.3655E-02
NB-94	T	6.492E-07	Ci	1997	1997	N	N				1.5400E-06
NB-95	T	1.681E-04	Ci	1997	1997	N	N				3.8087E-04
NI-59	T	1.508E-04	Ci	1997	1997	N	N				5.8356E-04
NI-63	T	5.617E-03	Ci	1997	1997	N	N				3.3392E-02
NP-237	T	7.363E-06	Ci	1997	1997	N	N				3.6350E-05

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PA-231	T	3.070E-09	Ci	1997	1997	N	N			1.0000E-08	
PB-210	T	0.000E+00	Ci	1997	1997	N	N			Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown
PU-238	T	1.470E-03	Ci	1997	1997	N	N			Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown
PU-239	T	6.916E-03	Ci	1997	1997	N	N			Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown
PU-240	T	6.651E-03	Ci	1997	1997	N	N			Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown
PU-241	T	3.448E-01	Ci	1997	1997	N	N			Basis for Uncertainty: See additional information Physical Form: Unknown	Chemical Form: Unknown

Waste Stream: ANL-785-2

Radio-nuclide (A) Annual
(T) Total

Waste Stream:	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PU-242	T	2.000E-10	Ci	1997	1997	N	N				
RA-226	T	0.000E+00	Ci	1997	1997	N	N				
RA-228	T	0.000E+00	Ci	1997	1997	N	N				
RU-106	T	3.373E-01	Ci	1997	1997	N	N				
SB-124	T	4.257E-05	Ci	1997	1997	N	N				
SB-125	T	3.966E-02	Ci	1997	1997	N	N				

Basis for Uncertainty: See additional information
Physical Form: UnknownBasis for Uncertainty: See additional information
Physical Form: Unknown

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SN-113	T	1.007E-03	Ci	1997	1997	N	N	N	N	4.9563E-03	
SN-117M	T	6.000E-11	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
SR-89	T	3.062E-01	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
SR-90	T	3.803E-01	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
TA-182	T	1.588E-03	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
TC-99	T	7.261E-05	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TE-132	T	0.000E+00	Ci	1997	1997	N	N				
TH-228	T	3.202E-07	Ci	1997	1997	N	N				
TH-229	T	7.000E-11	Ci	1997	1997	N	N				
TH-230	T	3.879E-08	Ci	1997	1997	N	N				
TH-232	T	0.000E+00	Ci	1997	1997	N	N				
U-232	T	9.039E-07	Ci	1997	1997	N	N				

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 10

Waste Stream: AML-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. used? Y/N*	Forecast Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
U-233	T	9.662E-08	Ci	1997	1997	N	N	N			4.7000E-07	

Y-90	T	3.962E-01	Ci	1997	1997	N	N	N			2.3427E+00
ZR-95	T	3.605E-01	Ci	1997	1997	N	N	N			1.8026E+00
AC-227	T	5.000E-11	Ci	1998	1998	N	N	N			
AG-110M	T	1.695E-05	Ci	1998	1998	N	N	N			1.0170E-04
AM-241	T	7.201E-05	Ci	1998	1998	N	N	N			5.5415E+00

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AM-243	T	1.000E-11	Ci	1998	1998	N	N				

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
BA-140	T	6.346E-05	Ci	1998	1998	N	N				3.8079E-04
C-14	T	4.454E-05	Ci	1998	1998	N	N				1.2344E-04
CE-144	T	1.768E-01	Ci	1998	1998	N	N				7.2912E-01
CL-36	T	0.000E+00	Ci	1998	1998	N	N				
CM-244	T	4.000E-11	Ci	1998	1998	N	N				

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
CO-57	T	4.410E-02	Ci	1998	1998		N	N		4.4101E-02

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
CO-58	T	2.223E-03	Ci	1998	1998		N	N		3.6991E-03
CO-60	T	6.363E-02	Ci	1998	1998		N	N		1.4374E-01
CR-51	T	7.473E-03	Ci	1998	1998		N	N		1.4701E-02
CS-134	T	1.570E-02	Ci	1998	1998		N	N		6.4401E-02
CS-137	T	1.913E-01	Ci	1998	1998		N	N		2.9333E-01

Waste Stream:	ANL-785-2						Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual Total	Quantity	Units	Begin Year	End Year								
EU-152	T	1.237E-05	Ci	1998	1998	N							1.8420E-05
EU-154	T	7.742E-04	Ci	1998	1998	N							2.9850E-02
EU-155	T	1.352E-02	Ci	1998	1998	N							5.3820E-03
FE-59	T	4.650E-03	Ci	1998	1998	N							5.7738E-03
H-3	T	1.362E-03	Ci	1998	1998	N							4.1946E-01
I-129	T	5.329E-08	Ci	1998	1998	N							4.4948E-04

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
I-131	T	5.816E-08	Ci	1998	1998	N	N	N	2.9000E-07	
LA-140	T	0.000E+00	Ci	1998	1998	N	N	N	1.3238E+00	
MN - 54	T	1.421E+00	Ci	1998	1998	N	N	N	3.1096E+00	
NA-22	T	2.298E-03	Ci	1998	1998	N	N	N	3.5328E-02	
NB-94	T	1.680E-06	Ci	1998	1998	N	N	N	4.0000E-06	
NB-95	T	4.609E-05	Ci	1998	1998	N	N	N	1.0440E-04	

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NI-59	T	1.300E-04	Ci	1998	1998	N	N				5.0284E-04
NI-63	T	6.307E-03	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N			3.7495E-02
NP-237	T	1.954E-06	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N			9.6400E-06
PA-231	T	8.100E-10	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N			
PB-210	T	0.000E+00	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N			
PU-238	T	1.245E-03	Ci	1998	1998	Basis for Uncertainty: See additional information Physical Form: Unknown	N	N			6.0975E-03

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std. Dev	Minimum Value	Maximum Value
PU-239	T	1.835E-03	Ci	1998	1998	N	N				9.0601E-03
PU-240	T	1.663E-03	Ci	1998	1998	N	N				6.7311E-02
PU-241	T	1.012E-01	Ci	1998	1998	N	N				2.8928E+02
PU-242	T	5.000E-11	Ci	1998	1998	N	N				
RA-226	T	0.000E+00	Ci	1998	1998	N	N				
RA-228	T	0.000E+00	Ci	1998	1998	N	N				

Waste Stream: ANL-785-2

Radio-nuclide (A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
RU-106	T	1.233E-01	Ci	1998	1998	N	N			6.3522E-01
SB-124	T	1.560E-05	Ci	1998	1998	N	N			7.7970E-05
SB-125	T	1.452E-02	Ci	1998	1998	N	N			5.9644E-02
SN-113	T	3.690E-04	Ci	1998	1998	N	N			1.8156E-03
SN-117M	T	2.000E-11	Ci	1998	1998	N	N			
SR-89	T	1.122E-01	Ci	1998	1998	N	N			6.6387E-01

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 18

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
SR-90	T	1.391E-01	Ci	1998	1998	N	N	N	8.2256E-01	
TA-182	T	5.818E-04	Ci	1998	1998	N	N	N	1.3664E-03	
TC-99	T	2.596E-05	Ci	1998	1998	N	N	N	4.0740E-05	
TE-132	T	0.000E+00	Ci	1998	1998	N	N	N	4.0740E-05	
TH-228	T	8.498E-08	Ci	1998	1998	N	N	N	4.1000E-07	
TH-229	T	2.000E-11	Ci	1998	1998	N	N	N	4.1000E-07	

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TH-230	T	1.029E-08	Ci	1998	1998	N	N				5.0000E-08
TH-232	T	0.000E+00	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
U-232	T	2.398E-07	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
U-233	T	2.564E-08	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
U-234	T	2.040E-06	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
Y-90	T	1.394E-01	Ci	1998	1998	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
ZR-95	T	2.576E-01	Ci	1998	1998	N	N			1.2879E+00
AC-227	T	2.900E-10	Ci	1999	1999	N	N			
AG-110M	T	6.768E-05	Ci	1999	1999	N	N			
AM-241	T	2.582E-06	Ci	1999	1999	N	N			
AM-243	T	6.000E-11	Ci	1999	1999	N	N			
BA-140	T	2.324E-04	Ci	1999	1999	N	N			

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
C-14	T	1.394E-05	Ci	1999	1999	N	N				3.8630E-05
CE-144	T	6.495E-01	Ci	1999	1999	N	N				2.6781E+00
CL-36	T	0.000E+00	Ci	1999	1999	N	N				
CM-244	T	2.300E-10	Ci	1999	1999	N	N				
CO-57	T	1.380E-02	Ci	1999	1999	N	N				1.3804E-02
CO-58	T	8.019E-03	Ci	1999	1999	N	N				1.3342E-02

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
CO-60	T	1.992E-02	Ci	1999	1999	N	N	N	4.4990E-02	
CR-51	T	2.3339E-03	Ci	1999	1999	N	N	N	4.6016E-03	
CS-134	T	5.761E-02	Ci	1999	1999	N	N	N	2.3630E-01	
CS-137	T	7.006E-01	Ci	1999	1999	N	N	N	1.0743E+00	
EU-152	T	4.530E-05	Ci	1999	1999	N	N	N	6.7480E-05	
EU-154	T	2.836E-03	Ci	1999	1999	N	N	N	1.0933E-01	

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
EU-155	T	4.741E-02	Ci	1999	1999	N	N				1.8879E-01
FE-59	T	1.456E-03	Ci	1999	1999	N	N				1.8072E-03
H-3	T	4.990E-03	Ci	1999	1999	N	N				1.5363E+00
I-129	T	1.952E-07	Ci	1999	1999	N	N				1.6462E-03
I-131	T	2.130E-07	Ci	1999	1999	N	N				1.0800E-06
LA-140	T	0.0000E+00	Ci	1999	1999	N	N				4.8485E+00

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 24

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
MN-54	T	3.441E-01	Ci	1999	1999	N	N				7.5292E-01
NA-22	T	7.194E-04	Ci	1999	1999	N	N				1.1058E-02
NB-94	T	5.257E-07	Ci	1999	1999	N	N				1.2500E-06
NB-95	T	2.157E-04	Ci	1999	1999	N	N				4.8873E-04
NI-59	T	4.068E-05	Ci	1999	1999	N	N				1.5739E-04
NI-63	T	1.974E-03	Ci	1999	1999	N	N				1.1736E-02

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NP-237	T	1.086E-05	Ci	1999	1999	N	N			5.3640E-05	

NP-231	T	4.530E-09	Ci	1999	1999	Basis for Uncertainty: See additional information Physical Form: Unknown					
PB-210	T	0.000E+00	Ci	1999	1999	N	N			2.0000E-08	
PU-238	T	6.922E-03	Ci	1999	1999	N	N			3.3907E-02	
PU-239	T	1.020E-02	Ci	1999	1999	N	N			5.0381E-02	
PU-240	T	1.047E-02	Ci	1999	1999	N	N			4.2382E-01	

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PU-241	T	4.663E-01	Ci	1999	1999	N	N			1.3330E+03	
PU-242	T	2.900E-10	Ci	1999	1999	N	N				
RA-226	T	0.0000E+00	Ci	1999	1999	N	N				
RA-228	T	0.0000E+00	Ci	1999	1999	N	N				
RU-106	T	4.523E-01	Ci	1999	1999	N	N			2.3298E+00	
SB-124	T	5.712E-05	Ci	1999	1999	N	N			2.8559E-04	

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SB-125	T	5.326E-02	Ci	1999	1999	N	N			2.1875E-01	
SN-113	T	1.351E-03	Ci	1999	1999	N	N			6.6497E-03	
SN-117M	T	8.000E-11	Ci	1999	1999	N	N				
SR-89	T	4.108E-01	Ci	1999	1999	N	N			2.4314E+00	
SR-90	T	5.106E-01	Ci	1999	1999	N	N			3.0190E+00	
TA-182	T	2.131E-03	Ci	1999	1999	N	N			5.0043E-03	

Waste Stream: ANL-785-2

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std. Dev.	Minimum Value	Maximum Value
TC-99	T	9.507E-05	Ci	1999	1999	N	N				1.4923E-04
TE-132	T	0.000E+00	Ci	1999	1999	N	N				
TH-228	T	4.725E-07	Ci	1999	1999	N	N				
TH-229	T	1.000E-10	Ci	1999	1999	N	N				
TH-230	T	5.723E-08	Ci	1999	1999	N	N				
TH-232	T	0.000E+00	Ci	1999	1999	N	N				

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 29

Waste Stream:	ANL-785-2			Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual	(T) Total	Quantity	Units							
U-232	T	1.334E-06	Ci	1999	1999	N	N			6.5100E-06	
U-233	T	1.426E-07	Ci	1999	1999	N	N			7.0000E-07	
U-234	T	1.770E-06	Ci	1999	1999	N	N			8.7300E-06	
U-235	T	6.040E-04	Ci	1999	1999	N	N			2.9822E-03	
Y-90	T	5.106E-01	Ci	1999	1999	N	N			3.0190E+00	
ZR-95	T	7.146E-01	Ci	1999	1999	N	N			3.5732E+00	

Footnotes:

- * and standard deviation in the next column. If not, mark N and give minimum value and maximum values in the next column
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

PART A - GENERAL INFORMATION

(1) Preparer: JKJ (2) Date Prepared: 01/31/01
(3, 4, 5, 6) Waste Stream: ANL-785-3 Contact-handled, nonprocessable LLW generated during HFEP operations maintenance,
modifications, and monitoring.
(7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic:
(8) Actual years disposed of at SDA: Starting year: 1994 Ending year: 1994 Annual or Total over all years: T
(9) Waste stream volume: 0.10000 Units*: M Container or Waste volume: C
(10) Comments:

PART B - WASTE STREAM CHARACTERISTICS

(1) General physical form: 21 Filters
(2) Details on physical form:
(3) Chemical form:
(4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown: NO
(5) Waste container type: I
(6) Other characteristics of interest:
(7) Comments:

PART C - NONRADICALIC CONTAMINANTS - Additional information or explanations:**PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:**

Basis for uncertainty is discussed in document text for ANL.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES**Type of source information:**

- RWMIS
Sample analysis data

Details concerning source:

Do the estimates of contaminant quantities represent: Best estimate | Worst case | Other:

B

If other than best estimate, why?:

Do the data conflict with RWMIS?: Y Where appropriate, scaling factors were applied for a better best estimate.

Major unknowns in inventories of contaminants:

Key assumptions used to deal with the unknowns:

CONTINUATION

Continuation of Part: Column or Question Number or Title:

Footnotes:

- * Units: cubic feet (FT) | gallons (GL) | grams (GM) | pounds (LB) | cubic meters (M) | unknown (U)

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual Total (T)	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
AC-227	T	0.000E+00	Ci	1994	1994	N	N				
<hr/>											
AG-110M	T	3.695E-08	Ci	1994	1994	N	N				
<hr/>											
AM-241	T	2.136E-06	Ci	1994	1994	N	N				
<hr/>											
AM-243	T	0.000E+00	Ci	1994	1994	N	N				
<hr/>											
BA-140	T	1.383E-07	Ci	1994	1994	N	N				
<hr/>											
C-14	T	1.988E-08	Ci	1994	1994	N	N				
<hr/>											

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CE-144	T	1.410E-05	Ci	1994	1994	N	N				5.8130E-05
CL-36	T	0.0000E+00	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
CM-244	T	0.0000E+00	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
CO-57	T	1.968E-05	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
CO-58	T	3.956E-04	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
CO-60	T	2.840E-05	Ci	1994	1994	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown

Waste Stream: AML-785-3

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CR-51	T	3.336E-06	Ci	1994	1994	N	N			6.5600E-06	
CS-134	T	5.640E-05	Ci	1994	1994	N	N			2.3133E-04	
CS-137	T	4.170E-04	Ci	1994	1994	N	N			6.3939E-04	
EU-152	T	2.696E-08	Ci	1994	1994	N	N			4.0000E-08	
EU-154	T	6.120E-05	Ci	1994	1994	N	N			2.3595E-03	
EU-155	T	1.510E-04	Ci	1994	1994	N	N			6.0128E-04	

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
FE-59	T	2.076E-06	Ci	1994	1994		N	N		2.5700E-06	
<hr/>											
H-3	T	2.970E-06	Ci	1994	1994		N	N		9.1433E-04	
I-129	T	1.2000E-10	Ci	1994	1994		N	N		9.7000E-07	
I-131	T	1.300E-10	Ci	1994	1994		N	N			
LA-140	T	0.0000E+00	Ci	1994	1994		N	N		2.8856E+00	
MN-54	T	6.560E-07	Ci	1994	1994		N	N		1.4300E-06	

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual Total (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. used? Y/N**	Forecast Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NA-22	T	1.026E-06	Ci	1994	1994	N	N	N				1.5760E-05
NB-94	T	7.500E-10	Ci	1994	1994	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown				
NB-95	T	2.210E-04	Ci	1994	1994	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown				
NI-59	T	5.801E-08	Ci	1994	1994	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown				
NI-63	T	2.815E-06	Ci	1994	1994	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown				
NP-237	T	2.043E-08	Ci	1994	1994	N	N	Basis for Uncertainty: See additional information Physical Form: Unknown				

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PA-231	T	1.000E-11	Ci	1994	1994	N	N				
PB-210	T	0.000E+00	Ci	1994	1994	N	N				
PU-238	T	1.302E-05	Ci	1994	1994	N	N				
PU-239	T	1.919E-05	Ci	1994	1994	N	N				
PU-240	T	2.270E-07	Ci	1994	1994	N	N				
BU-241	T	2.341E-06	Ci	1994	1994	N	N				

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PU-242	T	0.000E+00	Ci	1994	1994	N	N				
RA-226	T	0.000E+00	Ci	1994	1994	N	N				
RA-228	T	0.000E+00	Ci	1994	1994	N	N				
RU-106	T	2.672E-04	Ci	1994	1994	N	N				
SB-124	T	3.400E-08	Ci	1994	1994	N	N				
SB-125	T	2.785E-05	Ci	1994	1994	N	N				

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SN-113	T	8.043E-07	Ci	1994	1994	N	N			3.9500E-06	
SN-117M	T	0.000E+00	Ci	1994	1994	Basis for Uncertainty: See additional information Physical Form: Unknown					
SR-89	T	2.445E-04	Ci	1994	1994	N	N			1.4471E-03	
SR-90	T	1.460E-05	Ci	1994	1994	N	N			8.6330E-05	
TA-182	T	1.268E-06	Ci	1994	1994	N	N			2.9700E-06	
TC-99	T	5.658E-08	Ci	1994	1994	N	N			8.0000E-08	

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used?	Samples? Y/N**	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TE-132	T	0 .000E+00	Ci	1994	1994	N	N				
TH-228	T	8 .900E-10	Ci	1994	1994	N	N				
TH-229	T	0 .000E+00	Ci	1994	1994	N	N				
TH-230	T	1 .100E-10	Ci	1994	1994	N	N				
TH-232	T	0 .000E+00	Ci	1994	1994	N	N				
U-232	T	2 .510E-09	Ci	1994	1994	N	N				

Waste Stream: ANL-785-3

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
U-233	T	2.700E-10	Ci	1994	1994	N	N				
Y-90	T	1.460E-05	Ci	1994	1994	N	N				
ZR-95	T	1.100E-04	Ci	1994	1994	N	N				

Footnotes:

* and standard deviation in the next column. If not, mark N and give minimum value and maximum values in the next column

** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

PART A - GENERAL INFORMATION

(1) Preparer: JKM (2) Date Prepared: 01/31/01
 (3, 4, 5, 6) Waste Stream: ANL-793-1 Contact-handled, nonprocessible LIW generated during SCMS, EBR-II, TREAT, and ZPPR facility operations, maintenance, modifications, and monitoring.
 (7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic:
 (8) Actual years disposed of at SDA: Starting year: 1997 Ending year: 1999 Annual or Total over all years: T
 (9) Waste stream volume: 27.50000 Units*: M
 (10) Comments: C

PART B - WASTE STREAM CHARACTERISTICS

(1) General physical form: 13 21, 10, 41, 44
 (2) Details on physical form:

(3) Chemical form:
 (4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown: PB PL
 (5) Waste container type: PB2
 (6) Other characteristics of interest:
 (7) Comments: 1. Approximately 0.2% of total volume waste stream is absorbed liquid.

5. Waste container types: PB3, RDL.

PART C - NONRADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES

Type of source information:

 RWMIS

Sample analysis data

Generator forecasts	Reports
X Other database	Interview
Expert judgment	Operating records
Other: IWTs	

Details concerning source:

Do the estimates of contaminant quantities represent: Best estimate | Worst case | Other: B

If other than best estimate, why?:

Do the data conflict with RWMIS? Y Where appropriate, scaling factors were applied for a better best estimate.

Major unknowns in inventories of contaminants:

Key assumptions used to deal with the unknowns:

CONTINUATION

Continuation of Part: Column or Question Number or Title:

Footnotes:

* Units: cubic feet (FT) | gallons (GL) | grams (GM) | pounds (LB) | cubic meters (M) | unknown (U)

Waste Stream: ANL-793-1

CAS Number	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
1332-21-4	T	6.972E+03	Gm	1998	1998	N	N			6.9720E+03	1.0458E+04

Asbestos

Basis for Uncertainty: See additional information.
 Physical Form: Unknown
 Chemical Form: Unknown

Footnotes:

- * If sample data are available, mark Y in the column titled "Samples?" and provide the number of samples in the next column and standard deviation in the next column. If not, mark N and give minimum value and maximum value.
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

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PART D - RADIOLOGICAL CONTAMINANTS

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Minimum Value	Maximum Value
<hr/>										
AC-227	T	0.000E+00	Ci	1997	1997	N	N			
<hr/>										
AG-110M	T	7.706E-06	Ci	1997	1997	N	N			
<hr/>										
AM-241	T	2.767E-08	Ci	1997	1997	N	N			
<hr/>										
AM-243	T	0.000E+00	Ci	1997	1997	N	N			
<hr/>										
BA-140	T	2.885E-05	Ci	1997	1997	N	N			
<hr/>										
C-14	T	4.740E-05	Ci	1997	1997	N	N			
<hr/>										

08/26/02

Page: 1

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CE-144	T	1.410E-02	Ci	1997	1997	N	N				5.8144E-02
CL-36	T	0.0000E+00	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
CM-244	T	0.0000E+00	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
CO-57	T	4.693E-02	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
CO-58	T	5.784E-03	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
CO-60	T	6.771E-02	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 3

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CR-51	T	7.952E-03	Ci	1997	1997	N	N			1.5644E-02	
CS-134	T	6.524E-03	Ci	1997	1997	N	N			2.6760E-02	
CS-137	T	8.697E-02	Ci	1997	1997	N	N			1.3335E-01	
EU-152	T	5.622E-06	Ci	1997	1997	N	N			8.3700E-06	
EU-154	T	1.202E-03	Ci	1997	1997	N	N			4.6342E-02	
EU-155	T	6.222E-03	Ci	1997	1997	N	N			2.4776E-02	

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
FE-59	T	4.949E-03	Ci	1997	1997	N	N				6.1441E-03
H-3	T	2.033E-02	Ci	1997	1997	N	N				6.2601E+00
I-129	T	2.423E-08	Ci	1997	1997	N	N				2.0434E-04
I-131	T	2.644E-08	Ci	1997	1997	N	N				1.3000E-07
LA-140	T	0.000E+00	Ci	1997	1997	N	N				6.0183E+00
MN-54	T	7.765E-03	Ci	1997	1997	N	N				1.6989E-02

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NA-22	T	3.281E-04	Ci	1997	1997	N	N			5.0430E-03	
NB-94	T	1.787E-06	Ci	1997	1997	N	N			4.2600E-06	
NB-95	T	1.202E-03	Ci	1997	1997	N	N			2.7230E-03	
NI-59	T	1.383E-04	Ci	1997	1997	N	N			5.3509E-04	
NI-63	T	6.712E-03	Ci	1997	1997	N	N			3.9900E-02	
NP-237	T	1.164E-07	Ci	1997	1997	N	N			5.7000E-07	

Waste Stream: AML-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
PA-231	T	5.000E-11	Ci	1997	1997	N	N				
PB-210	T	0.000E+00	Ci	1997	1997	N	N				
PU-238	T	7.416E-05	Ci	1997	1997	N	N				
PU-239	T	1.093E-04	Ci	1997	1997	N	N				
PU-240	T	3.879E-06	Ci	1997	1997	N	N				
PU-241	T	1.334E-05	Ci	1997	1997	N	N				

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
PU-242	T	0.000E+00	Ci	1997	1997	N	N				--
RA-226	T	0.000E+00	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
RA-228	T	0.000E+00	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
RU-106	T	5.573E-02	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
SB-124	T	7.090E-06	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown
SB-125	T	5.808E-03	Ci	1997	1997	N	N				Basis for Uncertainty: See additional information Physical Form: Unknown Chemical Form: Unknown

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 8

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SN-113	T	1.677E-04	Ci	1997	1997	N	N				8.2540E-04

SN-117M	T	1.000E-11	Ci	1997	1997	Basis for Uncertainty: See additional information Physical Form: Unknown					
SR-89	T	5.100E-02	Ci	1997	1997	N	N				
SR-90	T	4.362E-01	Ci	1997	1997	N	N				
TA-182	T	5.028E-03	Ci	1997	1997	N	N				
TC-99	T	1.180E-05	Ci	1997	1997	N	N				

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

08/26/02

Page: 9

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TE-132	T	0.000E+00	Ci	1997	1997	N	N				
TH-228	T	5.060E-09	Ci	1997	1997	N	N				
TH-229	T	0.000E+00	Ci	1997	1997	N	N				
TH-230	T	6.100E-10	Ci	1997	1997	N	N				
TH-232	T	0.000E+00	Ci	1997	1997	N	N				
U-232	T	1.429E-08	Ci	1997	1997	N	N				

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
U-233	T	1.530E-09	Ci	1997	1997	N	N				
Y-90	T	4.362E-01	Ci	1997	1997	N	N				2.5792E+00
ZR-95	T	4.047E-03	Ci	1997	1997	N	N				2.0235E-02
AG-110M	T	3.122E-06	Ci	1998	1998	N	N				1.8730E-05
BA-140	T	1.169E-05	Ci	1998	1998	N	N				7.0120E-05
C-14	T	5.994E-06	Ci	1998	1998	N	N				1.6610E-05

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CE-144	T	7.043E-02	Ci	1998	1998	Forecast used? Y/N**

Samples? Y/N* Num. of Samples Std Dev

2.9040E-01

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CL-36	T	0.000E+00	Ci	1998	1998	Forecast used? Y/N**

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CO-57	T	5.935E-03	Ci	1998	1998	Forecast used? Y/N**

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CO-58	T	1.077E-01	Ci	1998	1998	Forecast used? Y/N**

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CO-60	T	8.563E-03	Ci	1998	1998	Forecast used? Y/N**

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.
CR-51	T	1.006E-03	Ci	1998	1998	Forecast used? Y/N**

Basis for Uncertainty: See additional information
Physical Form: Unknown

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CS-134	T	3.873E-03	Ci	1998	1998	N	N				1.5887E-02
CS-137	T	3.523E-02	Ci	1998	1998	N	N				5.4019E-02
EU-152	T	2.278E-06	Ci	1998	1998	N	N				3.3900E-06
EU-154	T	1.426E-04	Ci	1998	1998	N	N				5.4971E-03
EU-155	T	1.373E-02	Ci	1998	1998	N	N				5.4678E-02
FE-59	T	6.258E-04	Ci	1998	1998	N	N				7.7702E-04

CIDRA

PART D - RADIOLOGICAL CONTAMINANTS

Waste Stream: ANL-793-1

Page: 13

08/26/02

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
H-3	T	1.182E-01	Ci	1998	1998	N	N			3.6382E+01	
I-129	T	9.810E-09	Ci	1998	1998	N	N			8.2770E-05	
I-131	T	1.071E-08	Ci	1998	1998	N	N			5.0000E-08	
LA-140	T	2.060E-04	Ci	1998	1998	N	N			1.0485E-03	
MN-54	T	1.520E-02	Ci	1998	1998	N	N			3.3263E-02	
NA-22	T	8.253E-04	Ci	1998	1998	N	N			1.2685E-02	
<hr/>											
Basis for Uncertainty: See additional information Physical Form: Unknown											
Chemical Form: Unknown											
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Basis for Uncertainty: See additional information Physical Form: Unknown											
Chemical Form: Unknown											
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Basis for Uncertainty: See additional information Physical Form: Unknown											
Chemical Form: Unknown											

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NB-94	T	2.260E-07	Ci	1998	1998	N	N	N	N	5.3000E-07	
NB-95	T	1.349E-06	Ci	1998	1998	N	N	N	N	3.0500E-06	
NI-59	T	1.749E-05	Ci	1998	1998	N	N	N	N	6.7670E-05	
NI-63	T	8.488E-04	Ci	1998	1998	N	N	N	N	5.0459E-03	
PB-210	T	0.000E+00	Ci	1998	1998	N	N	N	N		
RA-226	T	0.000E+00	Ci	1998	1998	N	N	N	N		

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
RA-228	T	0.000E+00	Ci	1998	1998	N	N	N	N	1.1634E-01	
RU-106	T	2.258E-02	Ci	1998	1998	N	N	N	N		
SB-124	T	2.872E-06	Ci	1998	1998	N	N	N	N	1.4360E-05	
SB-125	T	2.366E-03	Ci	1998	1998	N	N	N	N	9.7185E-03	
SN-113	T	6.795E-05	Ci	1998	1998	N	N	N	N	3.3435E-04	
SN-117M	T	0.000E+00	Ci	1998	1998	N	N	N	N		

Waste Stream: ANL-793-1

Radio-nuclide (T)	Annual Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
SR-89	T	2.066E-02	Ci	1998	1998	N	N			1.2226E-01	--
SR-90	T	4.726E-02	Ci	1998	1998	N	N			2.7946E-01	
TA-182	T	1.071E-04	Ci	1998	1998	N	N			2.5162E-04	
TC-99	T	4.780E-06	Ci	1998	1998	N	N			7.5000E-06	
TE-132	T	0.000E+00	Ci	1998	1998	N	N				
Y-90	T	3.158E-02	Ci	1998	1998	N	N			1.8675E-01	

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
ZR-95	T	4.743E-02	Ci	1998	1998	N	N	N	N	N	2.3717E-01	

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
AG-110M	T	2.999E-06	Ci	1999	1999	N	N	N	N	N	1.7990E-05	

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
BA-140	T	1.123E-05	Ci	1999	1999	N	N	N	N	N	6.7370E-05	

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
C-14	T	6.127E-07	Ci	1999	1999	N	N	N	N	N	1.6900E-06	

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CE-144	T	1.592E-01	Ci	1999	1999	N	N	N	N	N	6.5631E-01	

Basis for Uncertainty: See additional information
Physical Form: Unknown

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen.	Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
CL-36	T	0.000E+00	Ci	1999	1999	N	N	N	N	N	6.5631E-01	

Basis for Uncertainty: See additional information
Physical Form: Unknown

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std. Dev.	Minimum Value	Maximum Value
CO-57	T	6.067E-04	Ci	1999	1999	N	N			6.0669E-04	
CO-58	T	3.207E-03	Ci	1999	1999	N	N			5.3360E-03	
CO-60	T	8.753E-04	Ci	1999	1999	N	N			1.9774E-03	
CR-51	T	1.028E-04	Ci	1999	1999	N	N			2.0224E-04	
CS-134	T	6.218E-03	Ci	1999	1999	N	N			2.5504E-02	
CS-137	T	3.385E-02	Ci	1999	1999	N	N			5.1900E-02	

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
<hr/>											
EU-152	T	2.188E-06	Ci	1999	1999	N	N			3.2600E-06	
<hr/>											
EU-154	T	6.724E-04	Ci	1999	1999	N	N			2.5924E-02	
<hr/>											
EU-155	T	3.822E-02	Ci	1999	1999	N	N			1.5220E-01	
<hr/>											
FE-59	T	6.398E-05	Ci	1999	1999	N	N			7.9420E-05	
<hr/>											
H-3	T	3.530E-01	Ci	1999	1999	N	N			1.0868E+02	
<hr/>											
I-129	T	9.430E-09	Ci	1999	1999	N	N			7.9520E-05	
<hr/>											

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
I-131	T	1.029E-08	Ci	1999	1999	N	N				5.0000E-08
La-140	T	6.190E-04	Ci	1999	1999	Basis for Uncertainty: See additional information Physical Form: Unknown					3.1507E-03
MN-54	T	5.448E-03	Ci	1999	1999	Basis for Uncertainty: See additional information Physical Form: Unknown					1.1920E-02
NA-22	T	1.557E-03	Ci	1999	1999	Basis for Uncertainty: See additional information Physical Form: Unknown					2.3938E-02
NB-94	T	2.311E-08	Ci	1999	1999	Basis for Uncertainty: See additional information Physical Form: Unknown					5.0000E-08
NB-95	T	1.379E-07	Ci	1999	1999	Basis for Uncertainty: See additional information Physical Form: Unknown					3.1000E-07

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
NI-59	T	1.788E-06	Ci	1999	1999	N	N			6.9100E-06	
NI-63	T	8.676E-05	Ci	1999	1999	N	N			5.1581E-04	
PB-210	T	0.0000E+00	Ci	1999	1999	N	N				
RA-226	T	0.0000E+00	Ci	1999	1999	N	N				
RA-228	T	0.0000E+00	Ci	1999	1999	N	N				
RU-106	T	2.169E-02	Ci	1999	1999	N	N			1.1174E-01	

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PART D - RADIOLOGICAL CONTAMINANTS

08/26/02 Page: 22

Waste Stream:	ANL-793-1			Begin Year	End Year	Waste Gen. Forecast used? Y/N**	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
Radio-nuclide	(A) Annual	(T) Total	Quantity Units								
SB-124	T	2.759E-06	Ci	1999	1999	N	N				1.3790E-05
SB-125	T	2.263E-03	Ci	1999	1999	N	N				9.2939E-03
SN-113	T	6.528E-05	Ci	1999	1999	N	N				3.2123E-04
SN-117M	T	0.000E+00	Ci	1999	1999	N	N				
SR-89	T	1.985E-02	Ci	1999	1999	N	N				1.1746E-01
SR-90	T	7.765E-02	Ci	1999	1999	N	N				4.5916E-01

Waste Stream: ANL-793-1

Radio-nuclide	(A) Annual (T) Total	Quantity	Units	Begin Year	End Year	Waste Gen. Forecast used? Y/N*	Samples? Y/N*	Num. of Samples	Std Dev	Minimum Value	Maximum Value
TA-182	T	1.029E-04	Ci	1999	1999	N	N			2.4175E-04	
TC-99	T	4.593E-06	Ci	1999	1999	N	N			7.2000E-06	
TE-132	T	0.000E+00	Ci	1999	1999	N	N				
Y-90	T	3.052E-02	Ci	1999	1999	N	N			1.8049E-01	
ZR-95	T	4.557E-02	Ci	1999	1999	N	N			2.2787E-01	

Footnotes:

- * and standard deviation in the next column. If not, mark N and give minimum value and maximum values in the next column
- ** For the projected waste streams, mark Y if forecast document was used. If not, mark N. This column is not used for the recent or historical waste streams.

PART A - GENERAL INFORMATION

- (1) Preparer: JKM (2) Date Prepared: 01/31/01
(3, 4, 5, 6) Waste Stream: ANL-798-1 Contact-handled, nonprocessable LLW generated during facility maintenance, monitoring, and the evaporation of low-level liquid waste in SHADES.
(7) Type of Radioactive Waste: Low level | Non-radioactive | Transuranic or suspect transuranic: L
(8) Actual years disposed of at SDA: Starting year: 1997 Ending year: 1998 Annual or Total over all years: T
(9) Waste stream volume: 28.20000 Units*: M
(10) Comments: C

PART B - WASTE STREAM CHARACTERISTICS

- (1) General physical form: 10 13, 21, 42, 43, 44, 47
(2) Details on physical form:

- (3) Chemical form:
(4) Inner packaging: Plastic Bag | Plastic Liner | Metal Liner | None | Other | Unknown | PL
(5) Waste container type: BXW
(6) Other characteristics of interest:
(7) Comments: 1. Approximately 0.1% of total waste volume is absorbed liquid.

5. Waste container types also: RDL, BLM

PART C - NONRADIOLOGICAL CONTAMINANTS - Additional information or explanations:
Basis for uncertainty is discussed in document text for ANL.

PART D - RADIOLOGICAL CONTAMINANTS - Additional information or explanations:

Basis for uncertainty is discussed in document text for ANL.